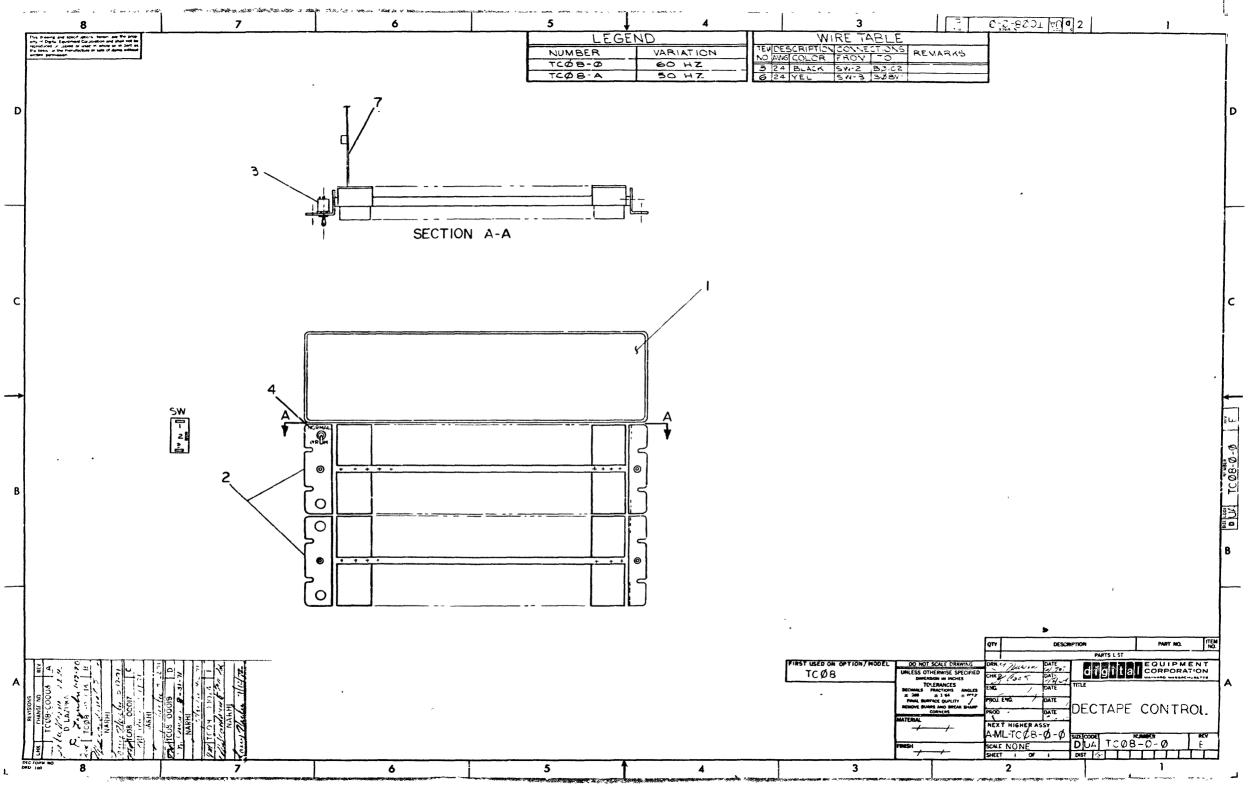
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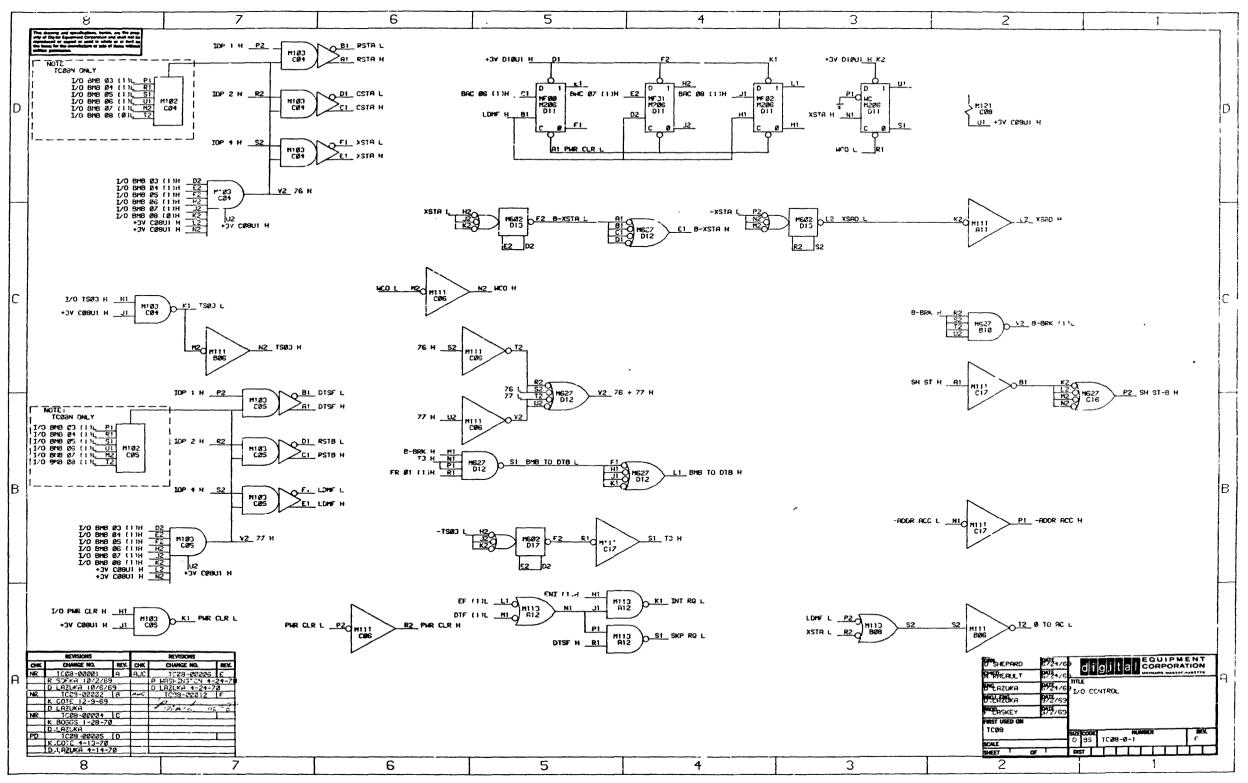
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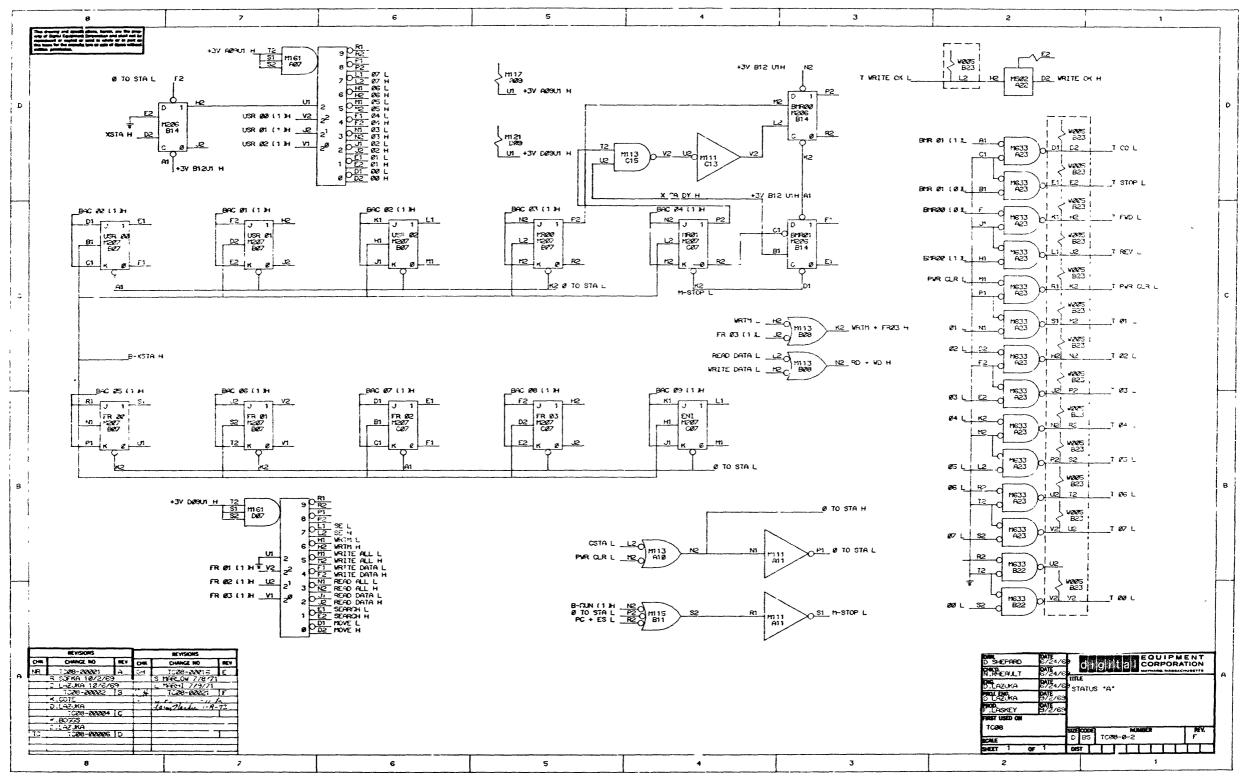


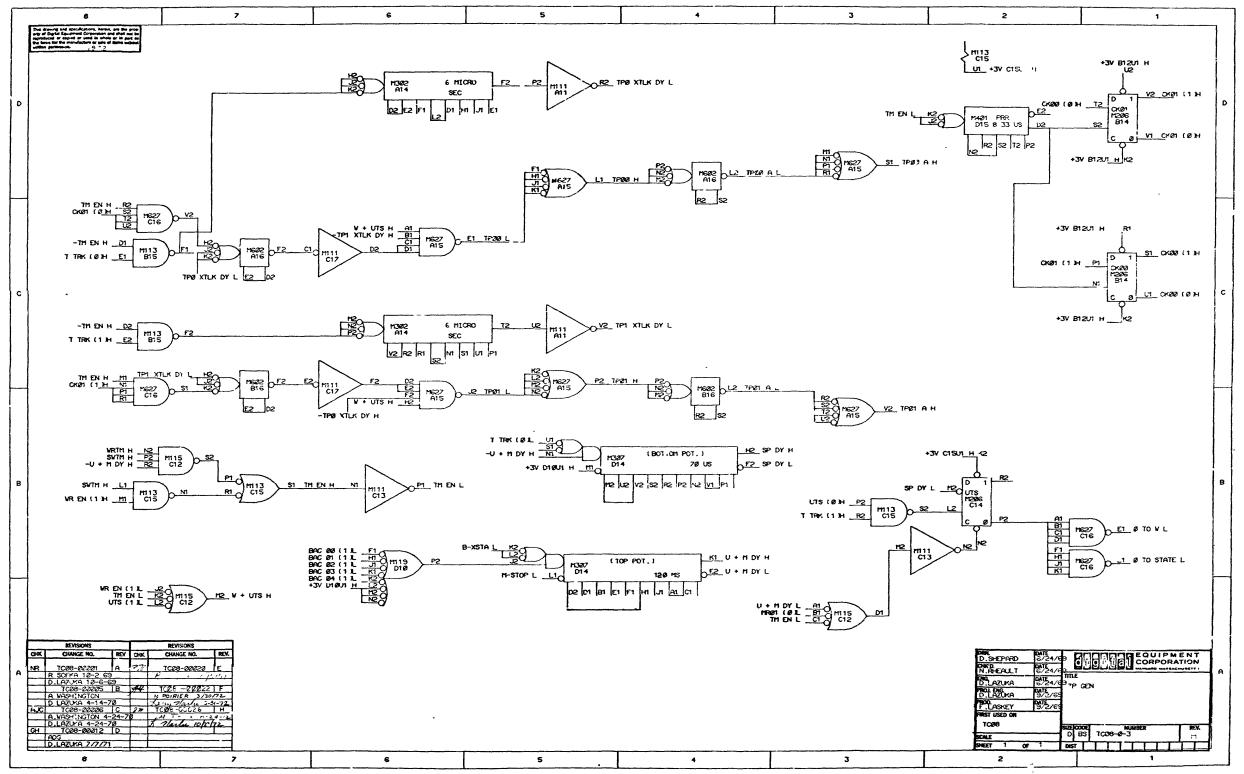
DIGITAL EQUIPMENT CORPORATION CUANTITY / VARIATION **PARTS LIST** NZ. ä MADE BY G. MART'. T CHECKED SECTION DATE 6/23/69 DATE 7/24/60 TC08-ENG PROD SSUED SECT DATE DATE DWG NO. / PART NO. DESCRIPTION HO n_a. 7006331-5-0 INDICATOR PANEL ASSY (TOWS) D-AD-7006394-0-0 WIRE, ACLY (TOMA) 1202279 WITCH, TOGGLE D-CAUT (TOWS) A-DC+5308493-0-0 61.7051- 1 WIF = 24 And . TRD TEF INS BLK 9107450-44 VIPE = 24 WG TRD TEF INS YEL D-UA-BCØBC-Ø-M CARLE, DUAL MYLAR M983-(2) 4831 FOWER CONTROL 854C D-UA-854-C-0 D-UA-854 - 8-0 POWER CONTROL 8548 D-00-783-0-1 783 POWER CHIPTON D-114-7034-0-1 MANUAL RUMBER TRANSPORT E-Au-7005474-0-0 CAN 486 D-AD-7005909-0-0 AC DIST PAUFI + 7005128 POWER COND 25" 1209340-1 Mat-N-LLC CONT * 1209378-1 PIN, CONTACT INTERCONNECTING R 7006223-0 CABLE • D-UA-H721-0-0 POWER SUPPLY H721 D=DA=E721=A=0 POWER SHIPPLY HTGIA NOT SHOWN ON ASSY TITLE ASSY NO SIZE CODE NUMBER REV ECONO. PL DECTAPE CONTROL D-UA-TCØ8-Ø-Ø TCØ8-Ø-Ø 00024 BHEET OF DEC FORM NO

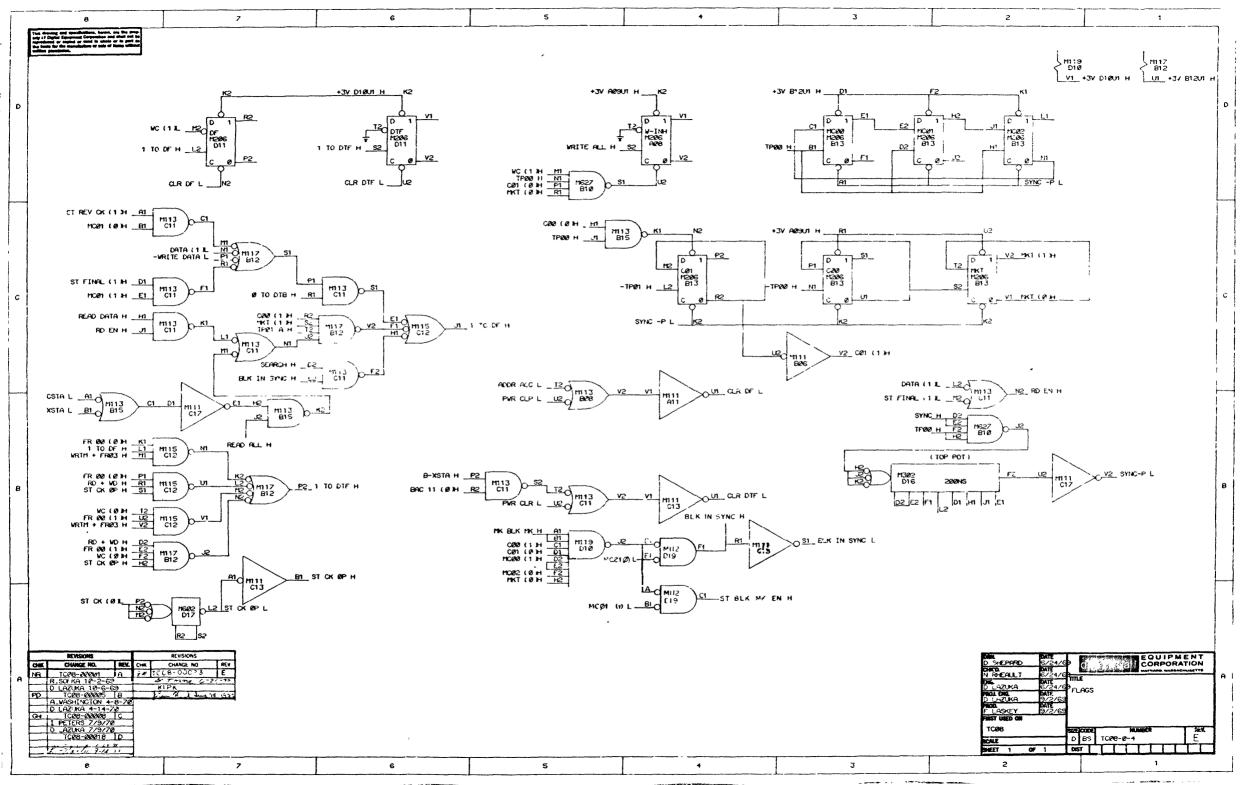
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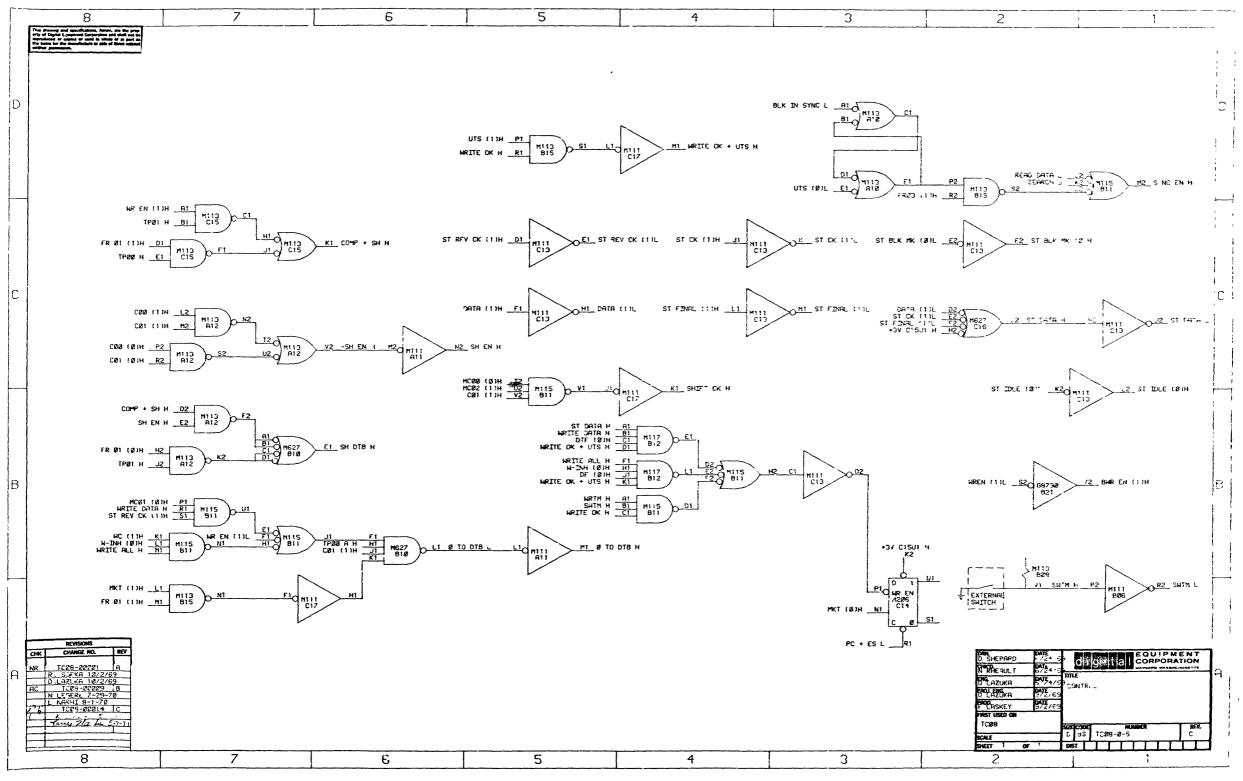
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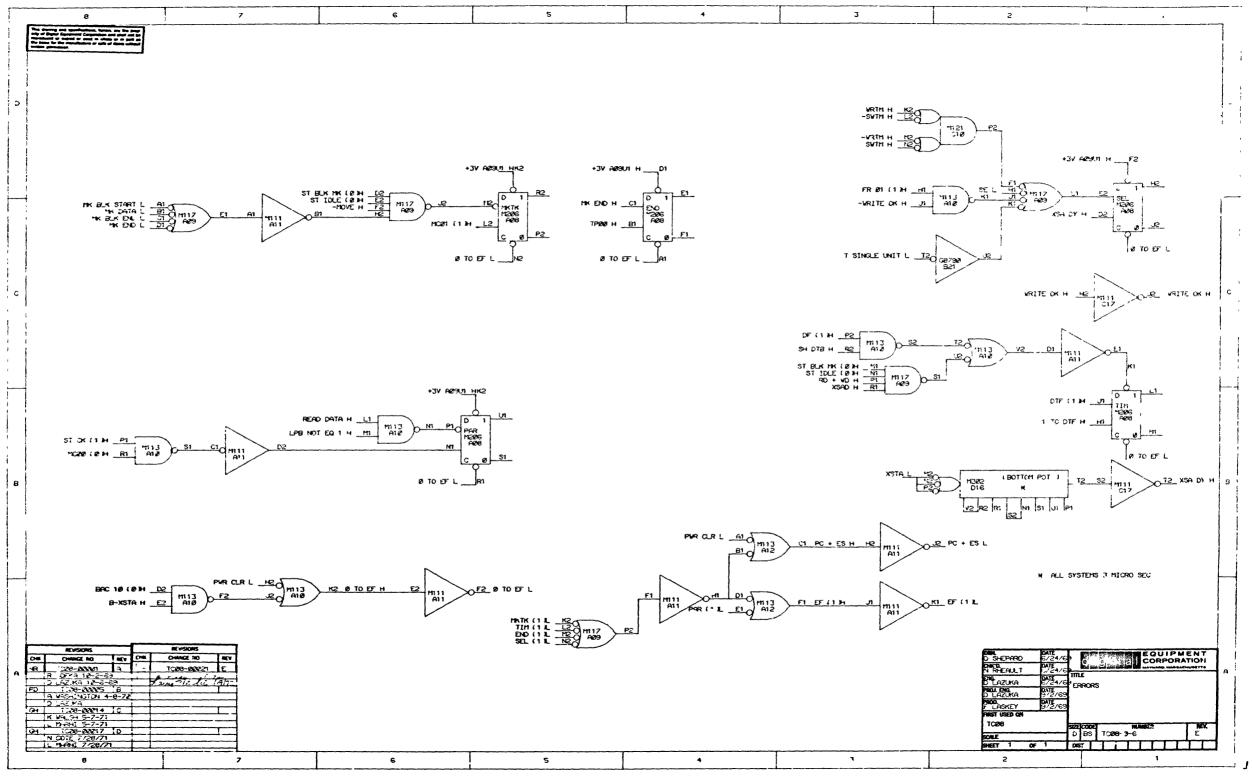


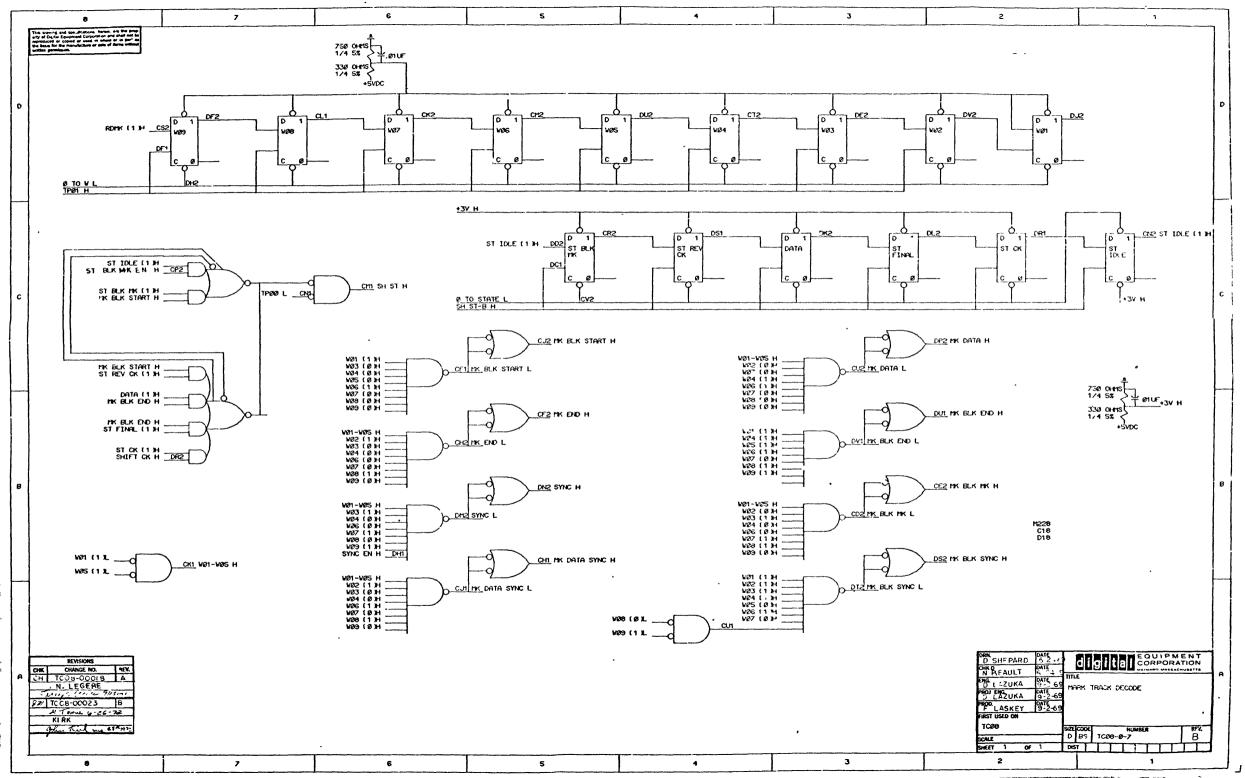


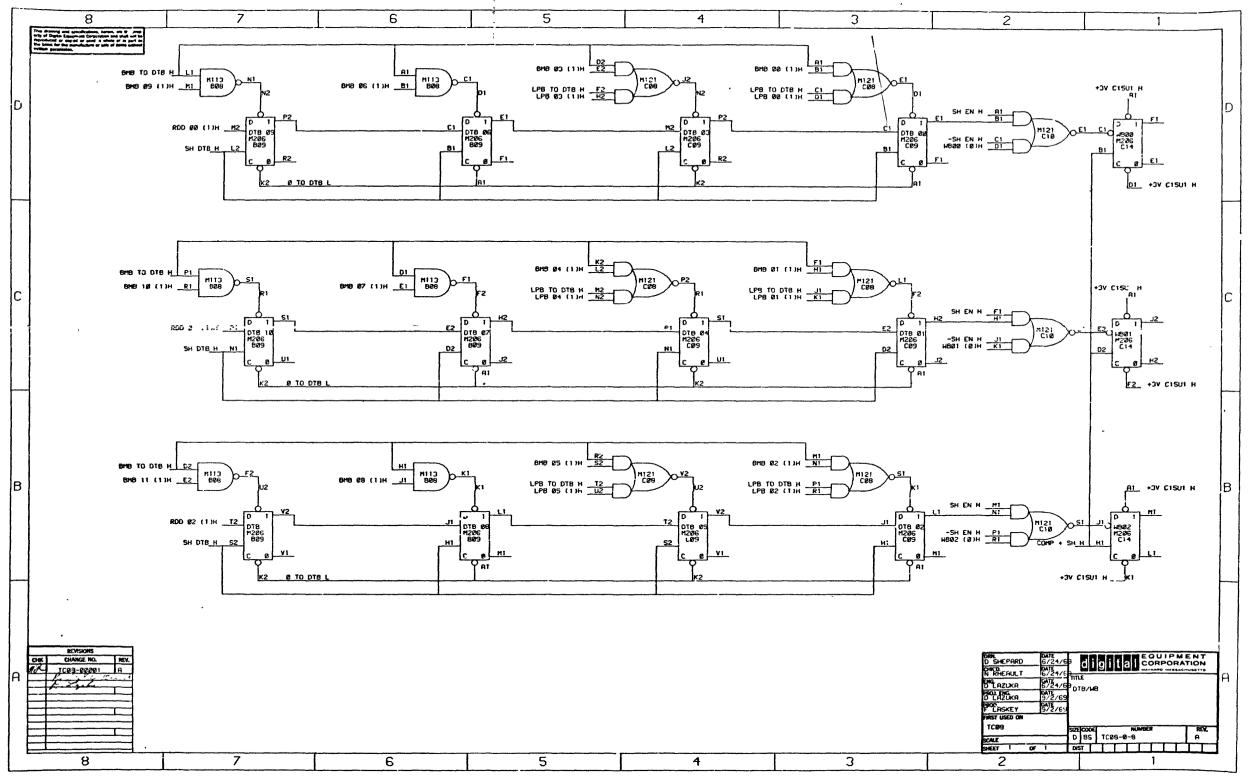


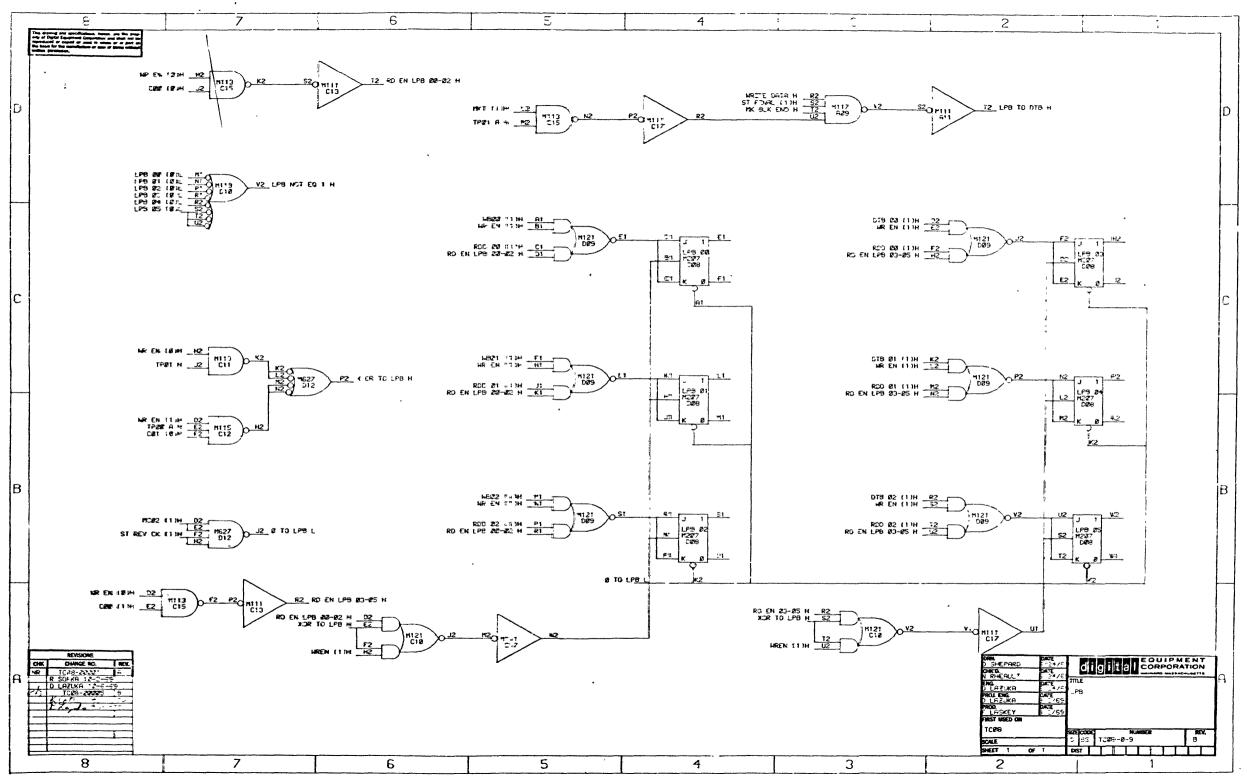


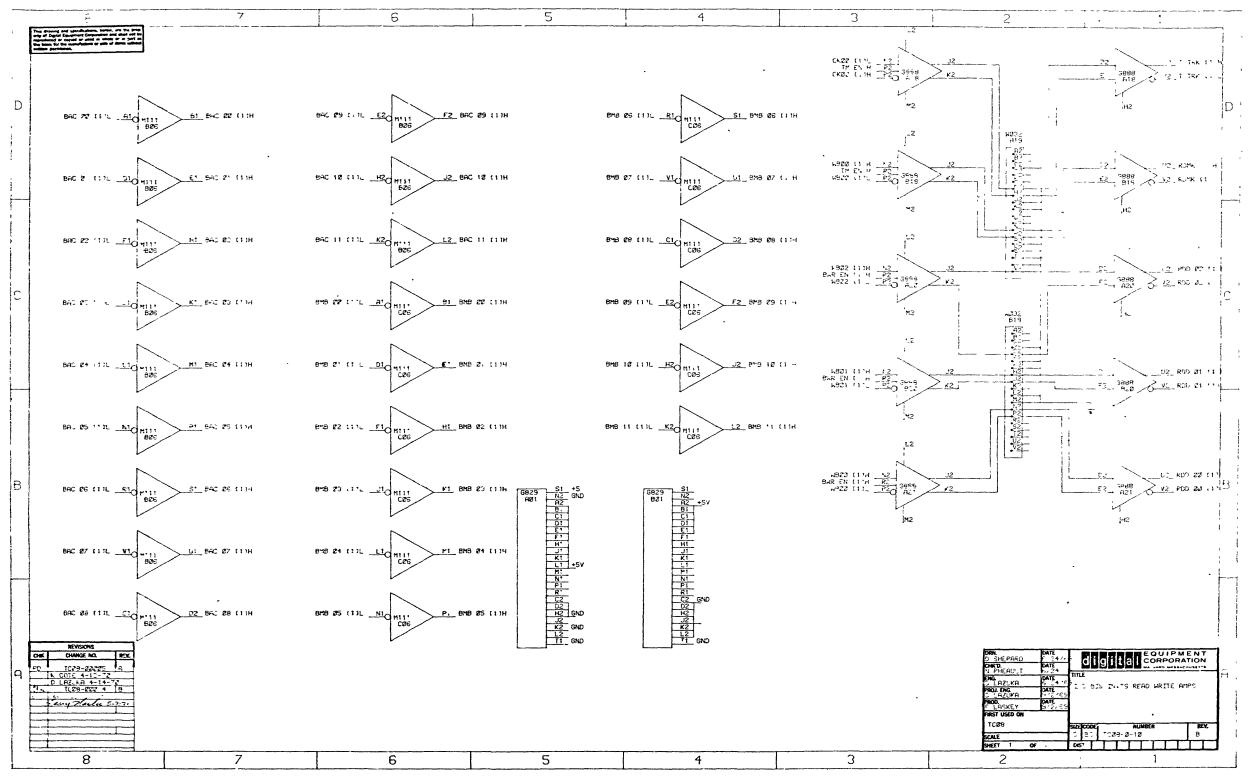


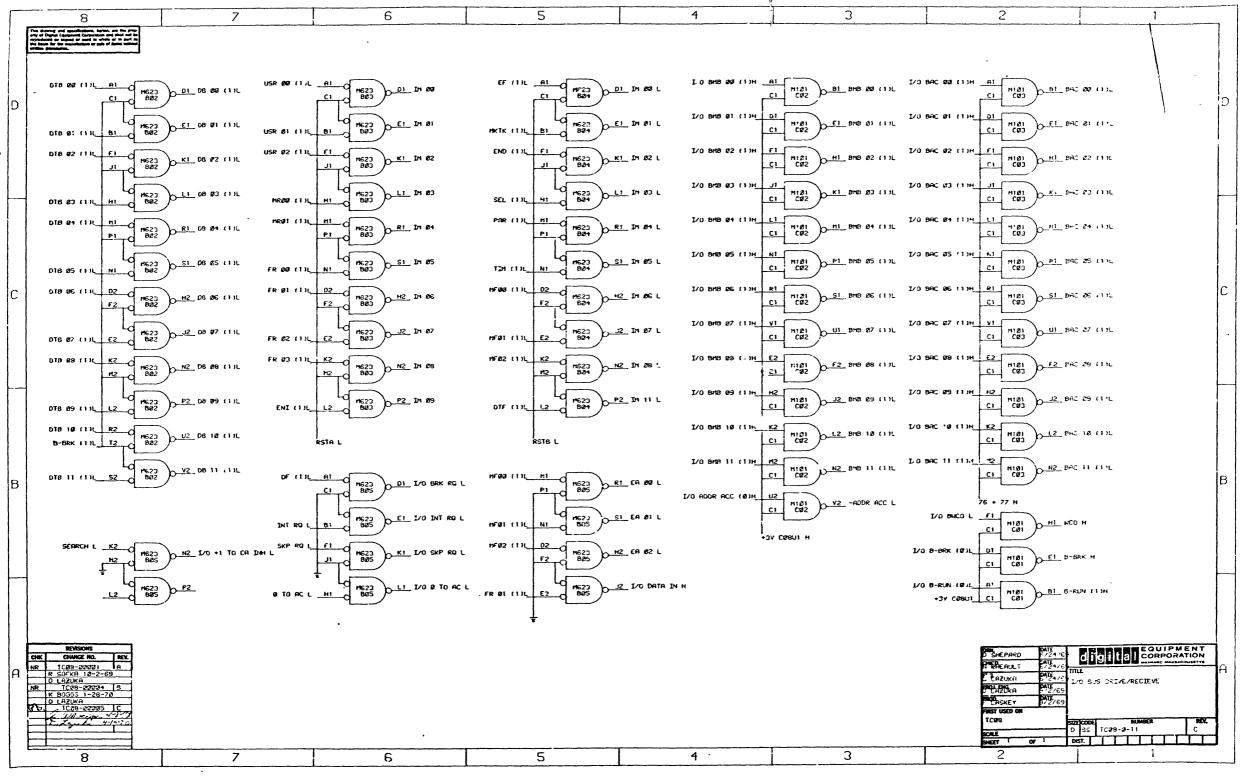


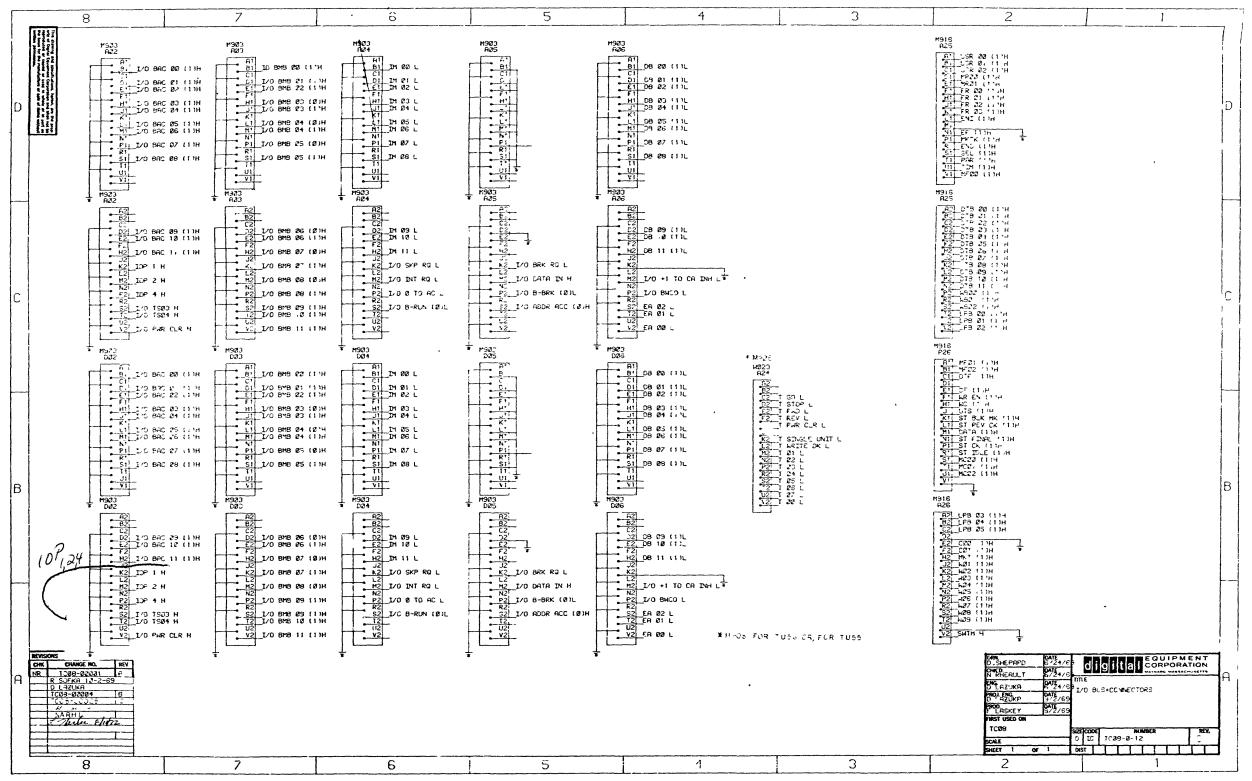


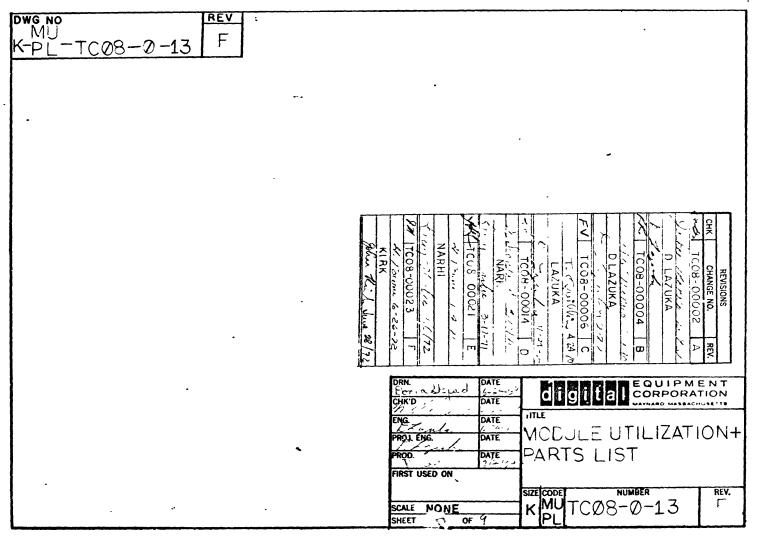










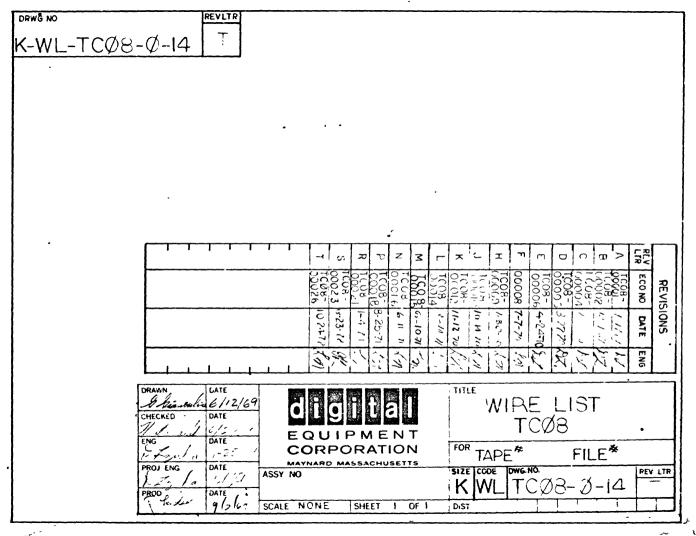


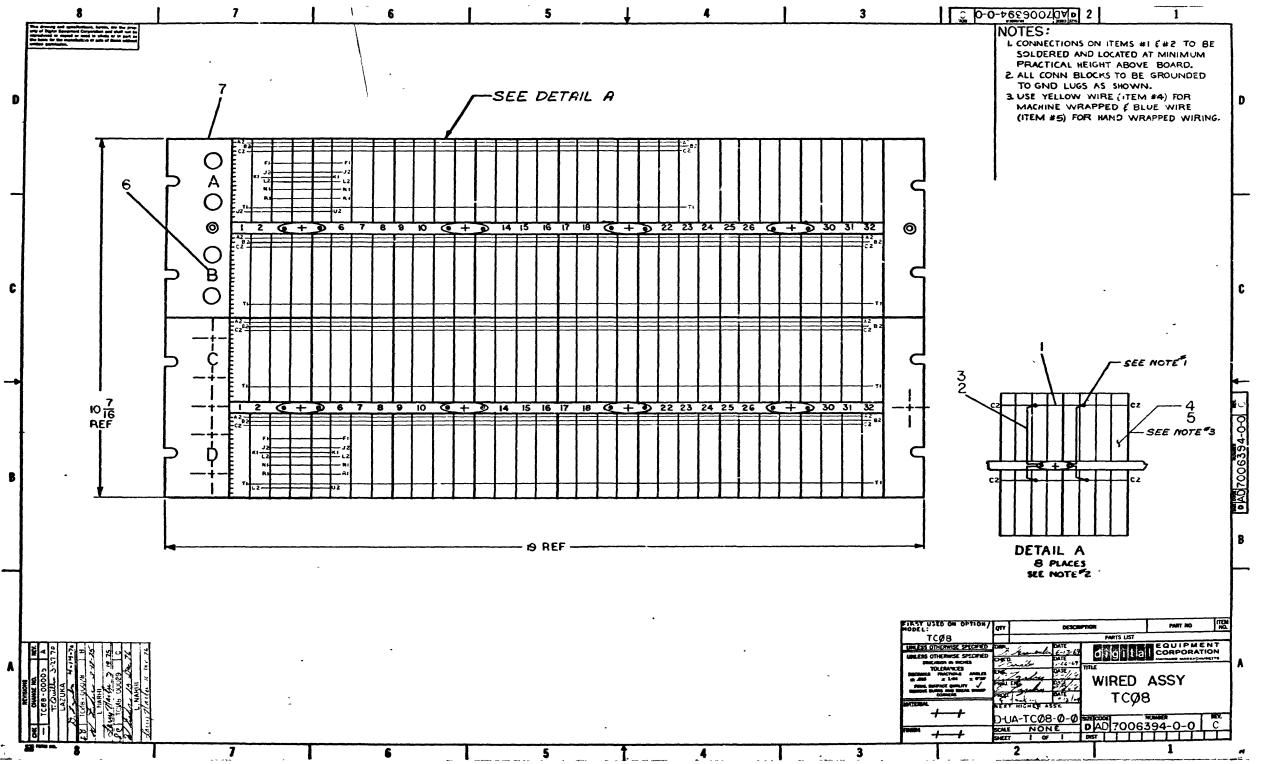
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	MODULE	UTILIZA	TION LIST	7008 REV: 7-JUL-71	21112	PAGE 1 1	-	· · · · · · · · · · · · · · · · · · ·	
	LDC	G821	SECT Si	DWG-SHEET-COORDS	SECT	DWG-SHEET-COORDS	UNUSED MODULE SECTIONS	0	Š
	¥05	M903	A1	7012-1-163,20	A2	TC12-1-120,20	•		:
	A03	M905	-A1	TC12-1-163,55	A2	7012-1-120,55	The state of the s	•	
•	404	M902	A1	7012-1-163,90	A2	TC12-1-120,90		•	1 1 100
•								೨	To the state of th
•	A05	EOGH	A1 -	7012-1-163,125	A2	TC12-1-120,125		•	. بندود داد
	A06	M903	A1	TC12-1-163,160	¥2	7612-1-120,160		٥	-
	407	M191	M1	7002-1-164,85	phone that the part of	- THE MATERIAL STREET	The production of the control of the		
	¥08	M206	E1 L1 S1	7006-1-147,170 7006-1-90,300 7006-1-83,120	H2 P2 V2	TC06-1-150,300 TC06-1-147,130 TC04-1-170,170	•		de la constante
1				and the second s		-		• • • • • • • • • • • • • • • • • • •	-
•	409	M117	£1 L1 S1	7006-1-150,40 7006-1-156,275 7006-1-103,237	J2 P2 U1	TC06-1-153,100 TC06-1-30,152 TC02-1-188,130	V1	•	and the second
•			V2	TC09-1-193,220				•	
•	A10	M113	C1 F2 K2	TC05-1-150,230 TC06-1-47,40 TC06-1-42,70	F1 K1 N1	TC05-1-160,230 TC06-1-155,250 TC06-1-89,97	V1 U1	•	at adjustments
			N2 52	TC02-1-54,175 TC06-1-113,230	\$1 v2	TC06=1=83,30 TC06=1=111,260		•	t T
	A11	M111	 81	7006-1-147.65	02	TC06+1=80,55	CONTRACT OF THE CONTRACT SHAPE	V V V V Indiana, then are underly advanced in these	*
	•		E1 H1 K1	TC06-1-138,286 TC06-1-37,175 TC06-1-35,236	F2	7006-1-39,110 7006-1-52,236		•	ł f
0	- Annelle Chille with the sector principle wages	and the state of t	M1	TC05-1-51,140 TC02-1-51,204	N2 R2	TC01=1=147,260 TC05=1=109,105 TC03=1=185,145	resources as an artistation rapid of the state of the sta	•	
•			51 U1	TC02-1-33,204 TC04-1-97,175	72 V2	TC09-1-180,250 TC03-1-115,145		•	1
•	A12	M113	C1	TC06-1-55,200	Fi	TC06-1-38,200	V1 U1	•	
•			K2 K2	TC05-1-92,47 TC05-1-80,40 TC05-1-120,47	K1 N1 S1	TC01-1-40,160 TC01-1-38,135 TC01-1-30,160		•	į L
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0	MODULE	UTILIZAT	ION LIST	TCOB REV: 7-JUL-71 DWG-SHEET-CODROS	21112 SECT	PAGE1 2 DWG-SMEET-COORDS	UNUSED MODULE SECTIONS	•	e Abrahosa Diguto Jeannin a se e e e e e
-	MDDULE LDC	UTILIZAT TYPE M113	ION LIST SECT	TCOB REV: 7-JUL-71 DWG-SHEET-CODROS TCO5-1-110,40			UNUSED MODULE SECTIONS		e 160 Andrew 1898 planten in a second and a second
0	_ rbs	TYPE	SECT	DWG-SHEET-COORDS	SECT	DWG-SHEET-COORDS	UNUSED MODULE SECTIONS		to the control of the second o
0 0	A12	TYPE M113	SECT	DWG-SHEET-COORDS TCO5-1-110,40 TCO3-1-188,100 TCO3-1-143,110	SECT V2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110	UNUSED MODULE SECTIONS	•	te 1800 Mode 1998 placement was a commercial way on the
	A12	TYPE M113 M302	SECT S2	DWG-SHEET-DDDRDS TC05-1-110,40 TC03-1-188,100	\$ECT V2 T2	DWG-SMEET-CODRDS TC05-1-112,70		•	to Mile Colombia de La Caractería de la
	A12	TYPE M113 M302	SECT	DWG-SHEET-COORDS TCO5-1-110,45 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145	\$ECT V2 T2 J2 P2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145		0	to the Control of the
0 0 0 0	A12 A14 A15	M113 M302 M527	SECT	DWG-SHEET-COORDS TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-165,225 TCO3-1-140,65	92 V2 V2 L2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185		0	to the Control of the
	A12 A14 A15 A16 A18	TYPE H113 H302 H527 H502 G588	SECT	DWG-SHEET-CODROS TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-165,225 TCO3-1-140,65 TC10-1-170,240	92 V2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-92,145 TC03-1-94,225	V1 U1	•	to the Salada Company of the second s
	A12 A14 A15	M113 M302 M527	SECT	DWG-SHEET-COORDS TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-165,225 TCO3-1-140,65	72 72 72 72 72 72 72 72	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300		0	to the Section Complete and the second section of the section of th
	A12 A14 A15 A16 A18 A19 A20	TYPE H113 H302 H527 H502 G588 G588	SECT	DWG-SHEET-CODROS TCO5-1-110,40 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-165,227 TCO3-1-160,60 TC10-1-170,240 TC10-1-137,270 TC10-1-130,240	V2 72 72 P2 V2 L2 U2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300	V1 U1	0	to Michigan Complete and a comparation of the compa
	A12 A14 A15 A16 A18 A19 A20 A21	TYPE H113 H302 H527 H502 G588 G588 G588	SECT	DWG-SHEET-CODROS TCO5-1-110,40 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-160,145 TCO3-1-165,227 TCO3-1-167,227 TC10-1-170,240 TC10-1-137,270 TC10-1-130,240 TC10-1-70,240	72 72 72 72 72 72 72 72	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300	V1 U1		to the Market Office temporal was a comparation of the comparation of
	A12 A14 A15 A16 A18 A19 A20 A21	TYPE H113 H302 H502 G588 G588 G588 H502	SECT	DWG-SHEET-CODROS TCO5-1-110,40 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-165,225 TCO3-1-160,240 TC10-1-137,270 TC10-1-130,240 TC10-1-170,240 TC10-1-170,240 TC10-1-170,240 TC10-1-170,240	V2 72 72 72 P2 V2 L2 U2 U2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300	V1 U1		to 45 Mark 45 Mark 10
	A12 A14 A15 A16 A18 A19 A20 A21	TYPE H113 H302 H527 H502 G588 G588 G588	SECT	DWG-SHEET-CODROS TCO5-1-110,40 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-160,145 TCO3-1-165,227 TCO3-1-167,227 TC10-1-170,240 TC10-1-137,270 TC10-1-130,240 TC10-1-70,240	V2 72 72 P2 V2 L2 U2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300	V1 U1		and the contraction of the contr
	A12 A14 A15 A16 A18 A19 A20 A21	TYPE H113 H302 H502 G588 G588 G588 H502	SECT	DWG-SHEET-CODROS TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-155,227 TCO3-1-167,227 TCO10-1-170,240 TC10-1-130,240 TC10-1-170,240 TC10-1-130,270 TC02-1-160,270 TCO2-1-150,270 TCO2-1-150,270 TCO2-1-120,270	V2 T2 J2 P2 V2 L2 U2 U2 U2 N2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300 TC10-1-70,300	V1 U1		and Market Market Annual Commence and the commence of the comm
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23	TYPE H113 H302 H527 H502 G388 H502 G388 H502 H502 H503	SECT	DWG-SHEET-CODROS TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-165,227 TCO3-1-140,60 TC10-1-170,240 TC10-1-130,240 TC10-1-170,240 TC10-1-130,240 TC10-1-170,240	V2 T2 J2 P2 V2 L2 U2 U2 U2 N2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300 TC10-1-70,300	V1 U1		A Michael Martin Committee Co. M. 1. 2. Co. M. 1. 2. Co. M. 1. 2. Co. M. 2.
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23	TYPE H113 H302 H527 H527 H502 G988 H332 G988 H502 H633	SECT	DWG-SHEET-CODRDS TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-150,227 TCO3-1-160,00 TC10-1-170,240 TC10-1-137,270 TC10-1-130,240 TC10-1-130,240 TC10-1-130,240 TC10-1-130,240 TC10-1-130,270 TC02-1-190,270 TC02-1-150,270 TC02-1-150,270 TC02-1-120,270 TC02-1-120,270	V2 T2 J2 P2 V2 L2 U2 U2 U2 U2 U2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300 TC10-1-60,270 TC02-1-60,270 TC02-1-60,270 TC02-1-60,270	V1 U1		and Market Complete and the second of the se
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23 A24 A25	TYPE H113 H302 H527 H502 G588 H502 G588 H502 H633 H916 H916	SECT	DWG-SHEET-CODRDS TCO5-1-110,43 TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-160,145 TCO3-1-165,227 TCO3-1-160,227 TCO3-1-170,240 TC10-1-137,270 TC10-1-130,240 TC10-1-130,240 TC10-1-130,240 TC10-1-190,270 TC02-1-190,270 TC02-1-190,270 TC02-1-164,250 TC12-1-76,250	V2 T2 J2 P2 V2 L2 U2 U2 U2 A2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300 TC10-1-60,270 TC02-1-60,270 TC02-1-60,270 TC02-1-60,270	V1 U1		A STANDARD CONTRACT C
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23	TYPE H113 H302 H527 H502 G588 H502 G588 H502 H633 H916	SECT	DWG-SHEET-CODRDS TCO5-1-110,43 TCO5-1-110,43 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-160,145 TCO3-1-165,227 TCO3-1-167,227 TCO3-1-170,240 TC10-1-137,270 TC10-1-130,240 TC10-1-170,240 TC10-1-170,240 TC10-1-170,270 TC02-1-180,270 TC02-1-180,270 TC02-1-180,270 TC12-1-73,285 TC12-1-76,350 TC11-1-176,35	V2 T2 J2 P2 V2 L2 U2 U2 U2 A2 A2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300 TC10-1-60,270 TC02-1-60,270 TC02-1-60,270 TC12-1-120,250 TC12-1-32,250	V1 U1		A PARAMETER COUNTY OF THE COUN
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23 A24 A25 A26 B01	TYPE H113 H302 H527 H527 H502 G388 G388 H502 H633 H223 H916 G821	SECT	DWG-SHEET-CODRDS TCO5-1-110,43 TCO5-1-188,100 TCO3-1-143,110 TCO3-1-160,145 TCO3-1-165,227 TCO3-1-160,220 TC10-1-137,270 TC10-1-137,270 TC10-1-130,240 TC10-1-130,240 TC10-1-150,270 TC02-1-160,270 TC02-1-160,270 TC02-1-164,250 TC12-1-76,250 TC12-1-76,250 TC12-1-76,250 TC10-1-30,170	V2 T2 J2 P2 V2 L2 U2 U2 U2 A2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300 TC10-1-60,270 TC02-1-60,270 TC02-1-60,270 TC02-1-60,270	V1 U1		A PARAGONAL CONTRACTOR
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23 A24 A25 A26 B01	TYPE H113 H302 H527 H527 H502 G388 G388 H502 H633 H223 H916 G821	SECT	DWG-SHEET-CODRDS TCO5-1-110,43 TCO5-1-110,43 TCO3-1-143,110 TCO3-1-140,145 TCO3-1-160,145 TCO3-1-160,227 TCO3-1-170,240 TC10-1-137,270 TC10-1-130,240 TC10-1-130,240 TC10-1-130,270 TC02-1-140,270 TC02-1-140,270 TC02-1-164,250 TC12-1-75,253 TC11-1-176,33 TC11-1-176,93	V2 T2 J2 P2 V2 L2 U2 U2 U2 A2 A2 A2 A2 H2 A2 H2 H2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-200,270 TC02-1-80,270 TC02-1-80,270 TC12-1-20,250 TC12-1-32,250 TC11-1-16,30 TC11-1-76,30 TC11-1-76,30 TC11-1-76,30 TC11-1-76,30	V1 U1		Application to the state of the
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23 A24 A25 A26 B01 B02	TYPE H113 H302 H502 H527 H502 G388 H332 G888 H502 H633 W223 H916 F916 G821 H623	SECT	DWG-SHEET-CODRDS TCO5-1-110,40 TCO3-1-188,100 TCO3-1-143,110 TCO3-1-140,145 TCO3-1-165,225 TCO3-1-165,225 TCO3-1-140,60 TC10-1-130,240 TC10-1-130,240 TC10-1-130,240 TC10-1-130,240 TC10-1-150,270 TC02-1-160,270 TC02-1-160,270 TC02-1-160,270 TC12-1-76,250 TC12-1-76,250 TC12-1-76,350 TC11-1-176,350	V2 T2 J2 P2 V2 L2 U2 U2 U2 A2 A2 A2 A2 U2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-70,300 TC10-1-70,300 TC10-1-70,270 TC02-1-60,270 TC02-1-60,270 TC12-1-32,250 TC11-1-16,30 TC11-1-16,30 TC11-1-76,30 TC11-1-76,30	V1 U1		## Additional terms and the second se
	A12 A14 A15 A16 A18 A19 A20 A21 A22 A23 A24 A25 A26 B01 B02	TYPE H113 H302 H502 H527 H502 G388 H332 G888 H502 H633 W223 H916 F916 G821 H623	SECT	DWG-SHEET-CODRDS TCO5-1-110,43 TCO3-1-188,130 TCO3-1-143,110 TCO3-1-150,145 TCO3-1-165,225 TCO3-1-165,225 TCO3-1-140,63 TC10-1-130,240 TC10-1-130,240 TC10-1-130,240 TC10-1-130,270 TC02-1-140,270 TC02-1-140,270 TC02-1-140,270 TC02-1-140,270 TC02-1-150,270 TC02-1-164,250 TC12-1-75,253 TC11-1-164,33 TC11-1-176,33 TC11-1-176,93	V2 T2 J2 P2 V2 L2 U2 U2 U2 A2 A2 A2 A2 H2 A2 H2 H2	DWG-SHEET-CODRDS TC05-1-112,70 TC03-1-118,100 TC03-1-99,110 TC03-1-102,145 TC03-1-94,225 TC03-1-162,185 TC10-1-190,300 TC10-1-130,300 TC10-1-200,270 TC02-1-80,270 TC02-1-80,270 TC12-1-20,250 TC12-1-32,250 TC11-1-16,30 TC11-1-76,30 TC11-1-76,30 TC11-1-76,30 TC11-1-76,30	V1 U1		### And

	TYPE	SECT	DHG-SHEET-COORDS	SECT	DWG-SHEET-COORDS	UNUSED	HODULE	SECTIONS	
804	M\$23	D1 K1 P1	TC11-1-176.150 TC11-1-156.150 TC11-1-136.150	NS H5	TC11-1-116,150 TC11-1-96,150	۷1	U1	U2	
805	M952	D1 K1 R1	TC11-1-62,90 TC11-1-42,90 TC11-1-62,157	N2 H2	TC11=1=42,150 TC11=1=42,30	vs	. V 1	.us	
806	M111	B1 E1 H1 K1 M1 P1	TC10-1-176,33 TC10-1-158,33 TC10-1-140,33 TC10-1-122,33 TC10-1-134,33 TC10-1-85,30	07 F2 J2 L2 N2 R2	TC10-1-32,30 TC10-1-176,100 TC10-1-158,100 TC10-1-140,100 TC01-1-110,50 TC05-1-40,30c	V2	water the A same.	end adin dia dia kanana and a	
B07	H207	S1 U1	TC10-1-65,30 TC10-1-50,30 TC02-1-140,20	H2	7C02-1-140,60	r vertillen alle dissiplicate della persona di l'escapa del consegui.		namonana wajak ki, njeko najajao	V of Normality (Marie Care Care Care Care Care Care Care Car
		31	TC02-1-140,130 TC02-1-85,20	P2 V2	TCO?-1-140,140 TCO2-1-88,60				
908	H113	C1 F2 K2 N2 82 V2	TC08-1-190,107 TC08-1-76,47 TC02-1-118,210 TC02-1-108,210 TC01-1-33,230 TC04-1-100,150	F1 K1 N1 S1 V1	TC08-1-132,107 TC08-1-76,107 TC08-1-100,47 TC08-1-132,47 TC05-1-45,278	U1	the and allegations are the		A VIA A ANGAGINGAA
909	H504	[1 [1 [5]	TC08-1-170,120 TC08-1-54,123 TC08-1-112,63	H2 P2 V2	TC08-1-112,120 TC08-1-170,60 TC08-1-56,60	er et vidand det manet en angenann vers span	marin upon negatiar guna a de		يونونون من
910	H627	E1 L1 V2	TC05-1-83,70 TC05-1-54,100 TC01-1-120,250	J2 51	TC04=1=90,260 TC04=1=160,150		_ u 1	P2	المنافقة الم
B11	M115	01 J1 N1 V1	7005-1-66,170 7005-1-57,70 7005-1-55,40 7005-1-65,47	H2 M2 52 V1	TC05-1-76,193 TC05-1-160,295 TC02-1-36,170 TC05-1-100,140	prof.			
B 12	M117	E1 L1 31	TC05-1-86,170 TC05-1-76,170 TC04-1-140,59 TC04-1-119,81	J2 P2 U1	7G04-1-54,35 7G04-1-73,62 7G04-1-192,309	V1			AND SERVICE AND A SERVICE
813	M204	ET	1604-1-170,220	H2	7004-1-170,245				
		TION LIST			PAGE1 4				
613	TYPE M204	SECT L1	DWG-SHEET-SDORDS -TC04-1-170,270	SECT P2	DWG-SHEET-COORDS	UNUSED	MODULE	SECTIONS	
	TYPE	SECT	DWG-SHEET-COORDS	SECT	DWG-SHEET-COURDS	UNUSED	HS WOONLE	SECTIONS	
813	TYPÉ M206	SECT L1 S1	DWG-SHEET-COORDS -TC04-1-170,270 TC04-1-130,220 TC02-1-140,210	SECT P2 V2	DHG-SHEET-COORDS TC04-1=130,180 TC04-1=130,260 TC02-1=177,210		,	SECTIONS V2	•
813 914	TYPE M206 M206	F1 K1	DWG-SHEET-COORDS -TC04-1-170,270 TC04-1-130,220 TC02-1-140,210 TC03-1-130,300 TC03-1-140,30 TC04-1-146,150	P2 V2 V2 F2 N1	DWG-SHEET-COURDS TC04-1=130,180 TC04-1=130,260 TC02-1=177,210 TC03-1=176,300 TC03-1=116,31 TC05-1=40,40	L1 V1	H2	v2	
914 915 916 918	M206 M206 M206 M113 M602 G808	F1 K1 S1 F2 J2	DWG-SHEET-COORDS -TC04-1-170,270 TC04-1-130,220 TC02-1-140,210 TC03-1-130,300 TC03-1-140,30 TC04-1-146,150 TC05-1-170,140	P2 v2 v2 F2 v2	DHG-SHEET-COURDS TC04-1=130,180 TC04-1=130,260 TC02-1=177,210 TC03-1=176,300 TC03-1=116,31 TC05-1=40,40 TC05-1=138,260	L1 V1	H2	v2	
914 915 916	TYPE M206 M206 M113	F1 K1 S1 F2	DWG-SHEET-COORDS -TC04-1-170,270 TC04-1-130,220 TC02-1-140,210 TC03-1-130,300 TC03-1-140,30 TC04-1-146,150 TC05-1-170,140 TC03-1-122,60	P2 v2 v2 F2 v2 L2	DHG-SHEET-COURDS TC04-1=130,180 TC04-1=130,260 TC02-1=177,210 TC03-1=176,300 TC03-1=116,31 TC05-1=40,40 TC05-1=138,260 TC03-1=100,185	L1 V1	H2	v2	
914 915 916 918	M206 M206 M206 M113 M602 G888	F1 F1 F1 F2 J2	DWG-SHEET-COURDS -TC04-1-170,270 TC04-1-130,220 TC02-1-140,210 TC03-1-130,300 TC03-1-140,30 TC04-1-146,150 TC05-1-170,140 TC03-1-102,60 TC10-1-160,240 TC10-1-85,270	P2 V2	DWG-SHEET-COURDS TC04-1-130,180 TC04-1-130,260 TC02-1-177,210 TC03-1-176,300 TC03-1-116,31 TC05-1-40,40 TC05-1-158,260 TC03-1-100,185	L1 V1 N2	H2	v2	
914 914 815 816 819 920 921 822	TYPE M206 M206 M206 M113 M602 G888 G879 M633	F1	DWG-SHEET-COURDS -TC04-1-170,270 TC04-1-130,220 TC02-1-140,210 TC03-1-130,300 TC03-1-140,30 TC04-1-146,150 TC05-1-170,140 TC03-1-100,240 TC10-1-100,240 TC005-1-0,0 TC02-1-40,270	P2 V2 V2 P1	DWG-SHEET-COURDS TC04-1=130,180 TC04-1=130,260 TC02-1=177,210 TC03-1=176,300 TC03-1=116,31 TC05-1=40,40 TC05-1=158,260 TC03-1=160,300 TC10-1=160,300 TC10-1=100,300 TC10-1=00,00	V1 N2 A1	H2	v2	
914 915 916 918 919 920	TYPE M206 M206 M206 M113 M602 G888 G879	F1	DWG-SHEET-COURDS -TC04-1-170,270 TC04-1-130,220 TC02-1-140,210 TC03-1-130,300 TC03-1-140,30 TC04-1-146,150 TC05-1-170,140 TC03-1-102,60 TC10-1-100,240 TC10-1-100,240 TC05-1-0,0	P2 V2	DWG-SHEET-COURDS TC04-1-130,180 TC04-1-130,260 TC02-1-177,210 TC03-1-176,300 TC03-1-116,31 TC05-1-40,40 TC05-1-158,260 TC03-1-100,185 TC10-1-160,300	L1 V1 N2 A1	H2	v2 c1	
914 914 815 816 819 920 921 822	TYPE M206 M206 M206 M113 M602 G888 G879 M633	FECT L1 S1 E1 S1 F1 K1 S1 F2 J2 J2 J2 L2	DWG-SHEET-COURDS TC04-1-170,270 TC04-1-130,220 TC02-1-140,210 TC03-1-130,300 TC03-1-140,30 TC04-1-146,150 TC05-1-170,140 TC03-1-122,60 TC10-1-100,240 TC10-1-100,240 TC02-1-12,256	P2 V2	DWG-SHEET-COURDS TC04-1=130,180 TC04-1=130,260 TC02-1=177,210 TC03-1=176,300 TC03-1=16,31 TC05-1=40,40 TC05-1=158,260 TC03-1=100,185 TC10-1=160,300 TC10-1=160,300 TC00-1=100,300 TC00-1=100,300 TC00-1=102,286 TC02-1=12,286 TC02-1=12,286 TC02-1=12,286 TC02-1=12,286 TC02-1=72,286	V1 N2 A1	H2	v2 c1	

HDDUI LDC	E UTILIZA	TION LIST	TGOB REV: 7-JUL-71 OHG-SHEET-COURDS	21:12 SECT	PAGE! 5 DWG-SHEET-COORDS_	UNUSED	HQDULE	SECTIONS	appe was at the party and	- man popularing and -
C03	M101	ر 2 ک	TG11-1-98,270 TG11-1-85,270	K1 M1	TC11=1=156,270 TC11=1=146,270					
		N2 81	TC11-1-76,270 TC11-1-126,270	Pî Uî	TC11-1-136,270 TC11-1-116,270					
Ç04	M103	81	7001-1-170,70	K1	7001-1-125,30	٧1	N1		and the second	regulation in their garden
C05	M103	81	TC01-1-70,60	K1	7001-1-30,30	V1	N1			
C06	M111	B1 E1	TC10-1-122,130 TC10-1-134,130	02 F2	7C10-1-140,180 7C10-1-122,180		ar or spherodox			***************************************
	*	#1 K1 M1	TC10-1-85,100 TC10-1-64,100 TC10-1-50,100	72 F3 N3	TC10=1=104.180 TC10=1=84.180 TC01=1=127.110					
		P1 51 U4	TC10-1-32,100 TC10-1-176,190 TC10-1-158,180	R2 †2 V2	TC01=1=30,90 TC01=1=110,120 TC01=1=90,120	e Print e a minimum difference rence, se con manuragen se	terms or he distance income	the designation closer enterpolities are as	there we want a same	
C07	M207	E1	7002-1-83,100	H2	TC02-1-88,140	٧2	51			
		- Li	7002-1-84,180	* P2	7002-1-140,180		. • •			nia - Marina Malair yaki sipiyayaya
COS	M121	E1 L1 51	TCU6-1=190,227 TC06-1=132,227 TC08-1=76,227	J2 P2 U1	TC08-1-190,167 TC08-1-132,167 TC01-1-180,260	V1				
£09	H206	v2 E1	TC08-1-75,167	H2		harden og grade til skeller av deller for	ALP VIII II II	****	ation with	
603	#60 9	11 51	TC06-1-54,240 TC08-1-112,150	P2 V2	TC08-1-112,240 TC08-1-170,180 TC08-1-56,180		•			
C10	M121	E1	TC08-1-176,277	.)2	7009-1-30,103	V1	U 1		- ~~ - ~~	contra anni ar h. nasa
~		11 51	TC08-1-118,277 TC08-1-62,277	A5	TC06-1-175,252 TC09-1-32,230					
Ci1	H113	C1 F2 K2	TC04-1-150,35 TC04-1-136,82	F1 K1	7C04-1-130,35 7C04-1-120,35	ν	- U 1	***		
		25 N5 K5	TC09-1-110,50 TC04-1-130,250 TC04-1-74,127	N1 S1 V2	TC04-1-114,58 TC04-1-130,82 TC04-1-70,150					
C12	M115	01	TC03-1-35,223	H2	1009-1-90,50					
		J1	7004-1-119,105	M2	7003-1-30,40	`				
Tre size of State of Management of State of Stat										
_ רַסכ <u>ּ</u>	E UTILIZA TYPE	SECT	DWG-SHEET-COORDS	21112 SECT	PAGE: 6 DWG-SHEET-COORDS	UNUSED	MODULE	SECTIONS		
						UNUSED	MODULE	SECTIONS		 y
C12	TYPE	SECT N1 U1 B1 E1	DMG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140	SECT S2	DWG-SHEET-COORDS TC03-1-80,37 TC04-1-64,35 TC05-1-73,216 TC05-1-140,260	UNUSED	MODULE	SECTIONS		 Y
C12	TYPE #115	SECT N1 U1 B1	DMG-SHEET-COORDS TC04-1-84,35 TC04-1-74.35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-140,200	SECT SZ V1 DZ FZ JZ LZ	DWG-SHEET-COORDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-73,216 TCO5-1-140,260 TCO5-1-117,299 TCO5-1-97,290	UNUSED	MODULE	SECTIONS		,
C12	TYPE #115	SECT N1 U1 B1 E1 H1 K1	DRG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-140,200 TC05-1-120,200 TC03-1-69,95 TC04-1-54,200	SECT S2 V1 D2 F32 L32 F32 F32 F32 F32 F32	DWG-SHEET-CODRDS TC03-1-80,37 TC04-1-64,35 TC05-1-73,216 TC05-1-140,260 TC05-1-17,299 TC05-1-97,290 TC03-1-51,246 TC09-1-37,60 TC09-1-187,80	UNUSED	MODULE	SECTIONS		· · · · ·
C12	TYPE #115	SECT N1 U1 B1 E1 H1 H1 H1 P1 P1 U1	DNG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC05-1-120,200 TC03-1-67,95 TC04-1-54,205 TC04-1-57,175 TC08-1-170,330	SECT 52 V1 D2 F2 J2 L2 N2 R2 V2	DWG-SHEET-COORDS TC03-1-80,37 TC04-1-64,35 TC05-1-73,216 TC05-1-140,260 TC05-1-17,299 TC03-1-51,246 TC09-1-37,60 TC09-1-187,80 * 102-1-165,185	The same same on the same	MODULE	SECTIONS		· · · ·
C12	TYPE H115 H111	SECT N1 U1 B1 E1 H1 K1 H1 F1 S1	DRG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-140,200 TC05-1-120,200 TC03-1-69,95 TC04-1-54,200	SECT S2 V1 D2 F32 L32 F32 F32 F32 F32 F32	DWG-SHEET-CODRDS TC03-1-80,37 TC04-1-64,35 TC05-1-73,216 TC05-1-140,260 TC05-1-17,299 TC05-1-97,290 TC03-1-51,246 TC09-1-37,60 TC09-1-187,80	UNUSED	MODULE	SECTIONS		y
C12	TYPE H115 H111	SECT N1 U1	DRG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,20 TC03-1-69,95 TC04-1-54,200 TC04-1-74,75 TC08-1-170,330 TC05-1-35,300 TC05-1-150,47 TC09-1-40,37	SECT S2 V1 D2 F2 L2 N2 R2 T2 V2 M2 P2 F1	DWG-SHEET-COORDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-140,260 TCO5-1-17,290 TCO5-1-51,246 TCO9-1-37,60 TCO9-1-187,80 ')02-1-165,185 TCO8-1-112,300 TCO3-1-65,260	The same same on the same	MODULE	SECTIONS		y
	M115 M115 M111	SECT N1 U1 B1 E1 H1 H1 H2 S1 U1 E1 L1 S4 C1 F2 K2 N2 S2	DRG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,20 TC03-1-69,95 TC04-1-54,200 TC04-1-54,200 TC05-1-150,47 TC09-1-150,47 TC09-1-190,50 TC09-1-190,50 TC09-1-190,50 TC09-1-190,50 TC09-1-190,50 TC09-1-190,50 TC03-1-65,235	SECT S2 V1 D2 F2 L2 N2 R2 T2 V2 H2 P2	DWG-SHEET-COORDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-73,216 TCO5-1-140,260 TCO5-1-117,299 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-37,60 TCO9-1-187,80 '302-1-165,185 TCO8-1-112,300 TCO3-1-65,260	V2	MODULE	SECTIONS		Y
	M115 M115 M111	SECT N1 U1 B1 E1 H1 H1 H2 S1 U1 E1 L1 S1 C1 F2 K2 N2 S2 V2 E1	DRG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-74,35 TC04-1-74,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,20 TC03-1-69,95 TC04-1-54,200 TC04-1-54,200 TC05-1-150,47 TC08-1-150,47 TC09-1-190,140 TC03-1-65,235 TC02-1-156,152 TC03-1-59,290	SECT S2 V1 D2 F1 F1 F2 F1	DWG-SHEET-CODRDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-73,216 TCO5-1-140,260 TCO5-1-17,299 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-37,60 TCO9-1-187,80 TCO9-1-187,80 TCO3-1-65,185 TCO8-1-112,300 TCO3-1-65,260 TCO5-1-140,40 TCO5-1-142,70 TCO3-1-72,60 TCO3-1-194,260	V2	MODULE	SECTIONS		
C12 C13 C14	TYPE M115 M111 M206 M113	SECT N1 U1 B1 E1 H1 K1 P1 S1 U1 E1 L1 S1 C1 F2 K2 N2 S2 V2	DRG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-74,35 TC04-1-74,35 TC05-1-140,140 TC05-1-140,200 TC05-1-170,200 TC03-1-67,95 TC04-1-54,200 TC04-1-54,200 TC05-1-170,300 TC08-1-54,300 TC05-1-150,47 TC09-1-40,37 TC09-1-40,37 TC09-1-190,50 TC07-1-190,140 TC03-1-65,235 TC02-1-158,152	SECT S2 V1 D2 F2 L2 N2 R2 V2 H2 P2 F1 K1 V1	DWG-SHEET-COORDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-73,216 TCO5-1-140,260 TCO5-1-117,299 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-37,60 TCO9-1-187,80 '302-1-165,185 TCO8-1-112,300 TCO3-1-65,260 TCO5-1-140,40 TCO5-1-142,70 TCO3-1-70,30 TCO3-1-72,60 TCO3-1-194,260	V2 V1		SECTIONS		
C12 C13 C14	TYPE M115 M111 M206 M113	SECT N1 U1 B1 E1 H1 K1 H1 F1 S1 U1 E1 L1 S2 V2 E1 L1 S1 V2 R2	DWG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC05-1-120,200 TC05-1-140,200 TC05-1-170,300 TC04-1-54,200 TC05-1-35,240 TC05-1-35,47 TC09-1-30,47 TC01-1-10,30	SECT S2 V1 D2 F12 R2 F12 V2 P2 F11 S11	DWG-SHEET-CODRDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-73,216 TCO5-1-140,260 TCO5-1-177,299 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-187,80 **202-1-165,185 TCO8-1-112,300 TCO3-1-65,260 TCO5-1-140,40 TCO5-1-142,70 TCO3-1-72,60 TCO3-1-72,60 TCO3-1-194,260 TCO5-1-194,260 TCO5-1-194,260 TCO5-1-194,260 TCO5-1-194,260 TCO5-1-194,260	V2 V1		SECTIONS		
C14 C15	TYPE M115 M111 M206 M113	SECT N1 U1 B1 E1 H1 K1 H1 F1 S1 U1 E1 L1 S2 V2 E1 L1 S1 H1 F2 N2	DNG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC03-1-67,95 TC04-1-54,200 TC04-1-54,200 TC05-1-130,47 TC09-1-130,47 TC09-1-130,47 TC09-1-150,140 TC03-1-65,235 TC02-1-150,140 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-100,30	SECT S2 V1 D2 F22 N22 F22 V2 F22 V2 F21 V21 P22 V2 F21 V2 F21 V2 F21 V2 F21 V2 F22 V	DWG-SHEET-CODRDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-73,216 TCO5-1-140,260 TCO5-1-117,299 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-37,60 TCO9-1-187,80 '302-1-165,185 TCO8-1-112,300 TCO3-1-65,260 TCO5-1-140,40 TCO5-1-142,70 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-194,260 TCO5-1-140,40 TCO5-1-140,40 TCO5-1-17,30 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-70,30	V2 V1 V1	U1			
C12 C12 C13 C14 C15	TYPE M115 M111 M206 M113 M527 M111	SECT N1 U1 B1 E1 H1 K1 H1 S1 U1 E1 L1 S1 C1 F2 K2 N2 S2 V2 E1 L1 S1 H1	DWG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC03-1-67,95 TC04-1-54,200 TC04-1-54,200 TC05-1-150,47 TC09-1-130,47 TC09-1-130,47 TC09-1-150,150 TC03-1-59,290 TC01-1-100,250 TC03-1-160,250 TC01-1-155,157	SECT S2 V1 D2 F22 N22 F22 V2 F11 S11 U1 P2 V2 H11	DWG-SHEET-CODRDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-73,216 TCO5-1-140,260 TCO5-1-17,299 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-187,80 '202-1-165,185 TCO8-1-112,300 TCO3-1-65,260 TCO5-1-140,40 TCO5-1-142,70 TCO3-1-70,30 TCO3-1-70,30 TCO3-1-194,260 TCO5-1-120,260 TCO5-1-190,31	V2 V1 V1	U1			¥
C14 C15	TYPE M115 M111 M206 M113	SECT N1 U1 B1 E1 H1 K1 H1 F1 S1 U1 E1 L1 S2 V2 E1 L1 S1 H1 F2 N2	DNG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC03-1-67,95 TC04-1-54,200 TC04-1-54,200 TC05-1-130,47 TC09-1-130,47 TC09-1-130,47 TC09-1-150,140 TC03-1-65,235 TC02-1-150,140 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-100,30	SECT S2 V1 D2 F12 R2 F12 R2 F11 S11 P2 P2 R41 R41 R42 R42 R41 R42 R42 R41 R42 R42 R43 R42 R43 R43 R42 R43	DWG-SHEET-CODRDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-140,260 TCO5-1-140,260 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-37,60 TCO9-1-187,80 ')02-1-65,185 TCO8-1-112,300 TCO3-1-65,260 TCO5-1-140,40 TCO5-1-142,70 TCO3-1-70,30 TCO3-1-194,260 TCO5-1-100,290 TCO3-1-150,31 TCO3-1-37,66 TCO5-1-37,76 TCO5-1-97,165 TCO9-1-27,130 TCO9-1-77,170 TCO6-1-70,300	V2 V1 V1	U1			y
C14 C15 C16 C18	TYPE M115 M111 M206 M113 M527 M111	SECT N1 U1 B1 E1 H1 K1 H1 P1 S1 U1 E1 L1 S1 U1 E1 L1 F2 N2 S2 V2 E1 L1 S1 B1 F2 J2 M1 P1 S1	DWG-SHEET-COORDS TC04-1-84,35 YC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC03-1-67,95 TC04-1-54,200 YC04-1-54,200 YC05-1-120,200 TC05-1-130,47 TC09-1-130,47 TC09-1-130,47 TC09-1-130,140 TC03-1-65,235 TC02-1-180,140 TC03-1-65,235 TC02-1-180,140 TC03-1-65,235 TC02-1-180,140 TC03-1-65,235 TC02-1-180,152 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC01-1-10,260 TC03-1-60,260 TC01-1-55,157	SECT S2 V1 D2 F12 R2 F12 F11 S11 P2 F11 R2 F11 R3 F	DWG-SHEET-CODRDS TCO3-1-80,37 TCO4-1-64,35 TCO5-1-140,260 TCO5-1-147,299 TCO5-1-97,290 TCO3-1-51,246 TCO9-1-187,80 **CO9-1-187,80 **CO9-1-187,80 **CO3-1-65,185 TCO8-1-12,300 TCO3-1-65,260 TCO5-1-140,40 TCO5-1-142,70 TCO3-1-72,60 TCO3-1-194,260 TCO5-1-194,260 TCO5-1-194,260 TCO5-1-194,260 TCO5-1-197,165 TCO9-1-27,130 TCO9-1-177,170 TCO6-1-70,300	V2 V1 V1	U1			
C14 C15 C16 C17 C18 C00	M115 M111 M206 M113 M527 M111 M228 M903	SECT N1 U1 B1 E1 H1 K1 H1 P1 S1 U1 E1 L1 S1 U1 E1 L1 S1 V2 V2 E1 L1 S1 H1 F2 N2 S2 V2 E1 L1 S1 A1 A1	DWG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC03-1-67,95 TC04-1-54,200 TC04-1-54,200 TC05-1-130,47 TC09-1-130,47 TC09-1-170,50 TC09-1-170,50 TC09-1-170,50 TC09-1-170,50 TC09-1-170,140 TC03-1-65,235 TC02-1-186,192 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC01-1-10,250 TC01-1-10,250 TC01-1-55,157 TC07-1-0,0 TC12-1-75,55	SECT S2 V1 D2 F12 R2 F11 S11 P2 F11 S11 P2 C11 R2 R2 R2 A2 A2	DWG-SHEET-CODRDS TC03-1-80,37 TC04-1-64,35 TC05-1-140,260 TC05-1-17,299 TC05-1-97,290 TC03-1-51,246 TC09-1-187,80 **102-1-165,185 TC08-1-112,300 TC03-1-65,260 TC05-1-140,40 TC05-1-142,70 TC03-1-2,60 TC03-1-2,60 TC03-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-170,30 TC03-1-70,30 TC03-1-70,30 TC03-1-70,30	V2 V1 V1	U1			¥
C14 C15 C16 C17 C18 C00 C00 C00 C00 C00 C00 C00 C00 C00 C0	M113 M206 M113 M207 M111 M228 M903 M903	SECT N1 U1 B1 E1 H1 K1 H1 P1 S1 U1 E1 L1 S1 U1 E1 L1 S1 U1 E1 L1 S1 S1 A1 A1 A1	DNG-SHEET-COORDS TC04-1-84,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC03-1-69,95 TC04-1-54,200 TC04-1-54,200 TC05-1-150,47 TC06-1-150,47 TC09-1-190,50 TC07-1-190,140 TC03-1-69,95 TC02-1-158,152 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC01-1-10,30 TC01-1-10,30 TC01-1-10,250 TC01-1-55,157 TC07-1-0,0 TC12-1-75,55 TC12-1-75,55	SECT S2 V1 D2 F22 V2 F22 F11 F12 F12	DWG-SHEET-CODRDS TC03-1-80,37 TC04-1-64,35 TC05-1-73,216 TC05-1-140,260 TC05-1-17,299 TC05-1-97,290 TC03-1-51,246 TC09-1-187,80 * 102-1-165,185 TC08-1-112,300 TC03-1-65,260 TC05-1-140,40 TC05-1-142,70 TC03-1-70,30 TC03-1-70,30 TC03-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-197,165 TC09-1-27,130 TC09-1-27,130 TC09-1-27,130 TC09-1-27,130 TC09-1-27,130 TC09-1-27,130	V2 V1 V1	U\$			Y
C14 C15 C16 C17 C18 C00	M115 M111 M206 M113 M527 M111 M228 M903	SECT N1 U1 B1 E1 H1 K1 H1 P1 S1 U1 E1 L1 S1 U1 E1 L1 S1 V2 V2 E1 L1 S1 H1 F2 N2 S2 V2 E1 L1 S1 A1 A1	DWG-SHEET-COORDS TC04-1-84,35 TC04-1-74,35 TC04-1-44,60 TC05-1-140,140 TC05-1-120,140 TC05-1-120,200 TC03-1-67,95 TC04-1-54,200 TC04-1-54,200 TC05-1-130,47 TC09-1-130,47 TC09-1-170,50 TC09-1-170,50 TC09-1-170,50 TC09-1-170,50 TC09-1-170,140 TC03-1-65,235 TC02-1-186,192 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC03-1-59,290 TC01-1-10,250 TC01-1-10,250 TC01-1-55,157 TC07-1-0,0 TC12-1-75,55	SECT S2 V1 D2 F12 R2 F11 S11 P2 F11 S11 P2 C11 R2 R2 R2 A2 A2	DWG-SHEET-CODRDS TC03-1-80,37 TC04-1-64,35 TC05-1-140,260 TC05-1-17,299 TC05-1-97,290 TC03-1-51,246 TC09-1-187,80 **102-1-165,185 TC08-1-112,300 TC03-1-65,260 TC05-1-140,40 TC05-1-142,70 TC03-1-2,60 TC03-1-2,60 TC03-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-194,260 TC05-1-170,30 TC03-1-70,30 TC03-1-70,30 TC03-1-70,30	V2 V1 V1	U\$			

LOC _	TYPE	TION LIST	TCO8 REV: 7-JUL: DHG-SHEET-CODRDS	-71 21:12 SECT	PAGE: 7 DWG-SHEET-COORDS UNUSED MODULE SECTIONS	
D05	M903	A1	TC12-1-75,160	A2	TC12-1-32,100	
007	M161	RI	TC02-1-34,70	and the second of the second of		a 🕶 of PARtin Ministrillin and march side service
008	H207	E1 L1 S1	TC09-1-136,180 TC09-1-95,185 TC09-1-56,185	H2 P2 V2	TC09-1-136,290 TC09-1-96,290 TC09-1-56,290	•
D09	M121	E1	7009-1-145,150 7009-1-105,150	J2 P2	TC09-1-145,260 V1 TC09-1-105,260	A TOTAL CONTACT AND
010	- 022H	91 v2	TC09-1-65,155 TC09-1-65,265 TC04-1-57,155	U1 P2	7002-1-170,130 7003-1-50,100	
		V1	TC04-1-192,285	VŽ	7009-1-160,50	
011	M206	E1 L1 S1	TC01-1-150,140 TC01-1-180,230 TC01-1-150,230	H2 P2 V2	TC01-1-180,170 TC04-1-170,50 TC04-1-170,100	TO A AMPLIANCE AND AMPLIANCE A
012	M527	E1 L1 S1	TC01-1-147,150 TC01-1-77,165 TC01-1-80,120	J2 P2 V2	TCO9=1=60,50 V1 U1 TCO9=1=104,73 TCO1=1=100,144	
013	×602	LS.	TG01-1-150.130	rs.	7001-1-150,210	THE THE PERSONNEL AND LOSS
014	M307	H2	TC03-1-80,160	K1	TC03-1-49,150	- For the state, white, a supplicate that
015	M401	E2	TG03-1-178,260		Pa	
D16 	M302	T2	7G06-1-73,255 7G01-1-58,135	L2	F2 TC04-1-38,40	the contract of the contract o
018	M228		7007-1-0.0			
ÞiÅ	Mil\$	Al Fl	TC04-		KI, NI, SI, UI, W	to \$1.70 should puriously should be not should
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*ODULE	PARTS L	IST SECT USED	TGO8 REV: 7-JUL SECT DESC	- 71 21112	PACE: 1	
TYPE 6821 3879	UŠEC 1 0	SECT USED 1 SPEC	SECT LEFT DESC	-71 21:12	PACEI 1	
TYPE G821 G879 G888 M101 M103 M111	U\$E0 1 0 5 2	\$ECT_USED 1 SPEC 10 23	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 15	-7 \$ 21112	PACEI 1	
TYPE G821 G879 G878 M101 M103 M111 M113 M115 M117	U \$ E C	SECT USED 1 SPEC 10 23	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 15 14 DIDDE GATE 0 8-3 INPUT NAND 2 5-4 NAND GATES	GATES	PACE: 1	
TYPE G821 G879 G8AB M101 M103 M113 M115 M117 M121 M161 M206	U\$E0 1 0 5 2 2 5 6 2 1 3 2 7	SECT USED 1 SPEC 10 23 4 65 58 16 14 4 20 2	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDI BATE 15 14 DIDDI GATE 0 B-3 INPUT NAND 2 S-4 NAND GATES 1 B-INPUT NAND G 4 K DR GATES 0 BINARY TO DGTAL 3 SIX FLIP-FLOPS 3 SIX FLIP-FLOPS	GATES ATES L/DECIMAL DECODE:		
TYPE G879 G878 W101 W103 W111 W113 W117 W117 W117 W119 M121 W161 W206 W302 W302 W307	U\$E0 1 0 5 2 2 5 6 2 2 1 3	\$ECT USED 1 SPEC 10 23 4 65 58 16 14 4 20 2	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 15 14 DIDDE GATE 0 8-3 INPUT NAND 2 6-4 NAND GATES 1 8-INPUT NAND GATES 1 8-INPUT NAND GATES 0 31NANT TO DETAIL	GATES ATES L/DECIMAL DECODE!		
TYPE G879 G878 W101 W103 W111 W113 W117 W117 W117 W117 W121 W161 W2007 W278 W302 W307 W401 W502 W602	USEC 105 225 622 1327 7312	SECT USED 1 SPEC 10 23 4 65 58 16 14 4 20 2 39 5 5 5 5 7 8 16 16 17 8 18 18 18 18 18 18 18 18 18 18 18 18 1	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 4 15 14 DIDDE GATE 0 8-3 INPUT NAND 2 6-4 NAVD GATES 1 8-1NPUT NAND GATES 0 BINARY TO DETAIL 3 SIX FLIP-FLOPS 2 FLIP-FLOP 1 DNE SHUT DELAY C 0 CLDC4 1 NEDATIVE INPUT 2 PULSE GENERATO	GATES ATES L/DECIMAL DECODES CONVERTER		
TYPE G821 G879 G878 H101 H103 H113 H115 H121 H206 H207 H302	USE0 1005 2005 6022 1100 7731 2011 1444 40210	SECT USED 1 1 SPEC 10 23 4 65 58 16 14 4 20 2 39 16 5 5 5 5 10 2 3 2 3 2 1 3 1 4 2 3 2 3 7 1 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 15 14 DIDDE GATE 0 B-3 INPUT NAND 2 6-4 NAVD GATES 1 B-INPUT NAND GI 4 X DR GATES 0 BINARY TO DCTAL 3 SIX FLIP-FLOPS PLIP-FLOP 1 DNE SHUT DELAY 0 CLDC1 NEGATIVE INPUT 0 CLDC1 NEGATIVE INPUT 0 DIDDE GATE 9 5-4 NAND GATES 5 DIDDE GATE	GATES ATES L/DECIMAL DECODE: CONVERTER		
TYPE G821 G879 G878 H101 H103 H113 H113 H117 H121 H206 H207 H401 H502 H602 H602 H603 H603	USE0 10 52 25 62 11 27 73 11 11 14 44 4	SECT USED 1 SPEC 10 23 4 65 58 16 14 4 20 2 39 16 5 5 5 2 1 1 1 8 2 1 2 3 7	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 15 14 DIDDE GATE 0 8-3 INPUT NAND 2 6-4 NAVO GATES 1 8-INPUT NAND GATES 1 8-INPUT NAND GATES 2 FLIP-FLOPS 2 FLIP-FLOPS 1 DNE SHUT DELAY 0 CLUCK 1 NEGATIVE INPUT 0 CLUCK 1 NEGATIVE INPUT 1 DIDDE GATE 9 5-4 NAVO GATES 5 DIDDE GATE 0 CONNECTOR BOARS 1 CLAMP LOAD 1 DONNECTOR BOARS 1 CLAMP LOAD 0 CONNECTOR BOARS 1 CLAMP LOAD 0 CONNECTOR BOARS	GATES ATES L/DEC!MAL DECODE! CONVERTER C		
TYPE G821 G879 G878 H101 H103 H113 H113 H117 H121 H161 H206 H207 H228 H302 H302 H302 H302 H302 H302 H303 H903 H903 H903	USE0 10 22 25 62 21 11 11 14 44 21 21	SECT USED 1 SPEC 10 23 4 65 58 16 14 4 20 2 39 16 5 5 5 2 1 1 1 8 2 2 2 3 4 1 4 4 1 4 1 4 1 4 1 4 1 5 1 6 5 1 7 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 4 15 14 DIDDE GATE 0 8-3 INPUT NAND 2 5-4 NAND GATES 1 8-INPUT NAND GATES 1 8-INPUT NAND GATES 2 FLIP-FLOP 1 DNE SHUT DELAY 0 DLDCK 1 NEDATIVE INPUT 0 DLDCK 1 NEDATIVE INPUT 0 DLDCK 1 DLDCCC 1 DLDCCC 1 DLDCCCCCC 1 DLDCCCCCCCCC 1 DLDCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	GATES ATES L/DEC!MAL DECODE! CONVERTER C		
TYPE G821 G879 G878 H101 H103 H113 H113 H117 H121 H61 H206 H207 H207 H401 H502 H602 H602 H602 H602 H602 H603 H903 H903 H903 H903 H903	USE0 10 22 25 62 21 11 11 14 44 21 12 11 12	SECT USED 1 SPEC 10 23 4 65 58 16 14 4 20 2 39 16 5 5 5 2 1 1 1 8 2 1 2 3 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	SECT LEFT DESC 1 MDD 0 READER/WRITER 7 DIDDE GATE 4 15 14 DIDDE GATE 0 8-3 INPUT NAND 2 5-4 NAVD GATES 1 8-1NPUT NAND GATES 1 8-1NPUT NAND GATES 0 BINARY TO DETAIL 3 SIX FLIP-FLOPS 2 FLIP-FLOP 1 DNE SHUT DELAY 0 CLUCK 1 NEGATIVE INPUT 0 DULSE GENERATO 11. DIDDE GATE 9 5-4 NAVO GATES 5 DIDDE GATE 0 CUNNECTUR BUARR 1 DLAMP LOAD 0 CONNECTUR BUARR 1 DLAMP LOAD 0 CONNECTUR BUARR 2 CONNECTUR BUARR 3 CONNECTUR BUARR 4 CONNECTUR BUARR 5 CONNECTUR BUARR 6 CONNECTUR	GATES ATES L/DEC!MAL DECODE! CONVERTER C		
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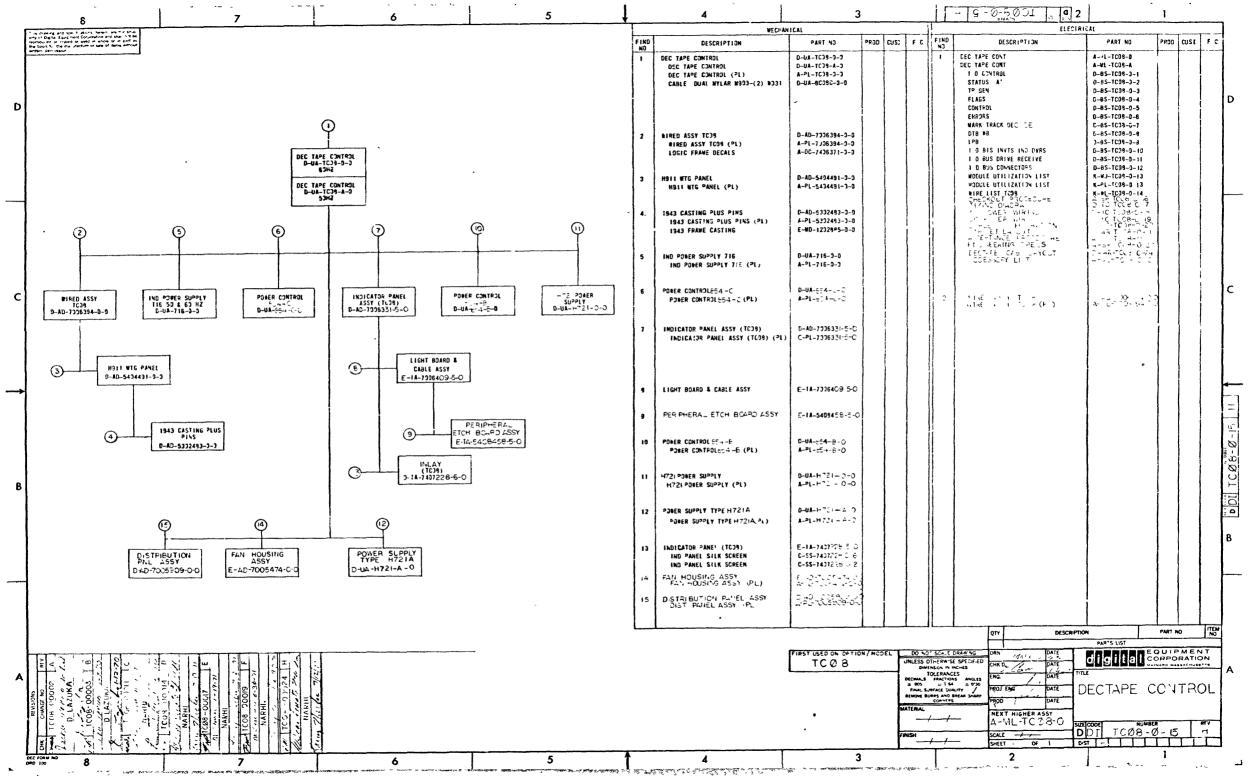


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1	9009428	BUS STRIP		A/R						I			
2	9107560-1	22 AWG BUS WIRE		A/R				\sqcup	\bot		_	<u></u>	_
3	9107256-09	#22 TUBING, TEFLON, WHITE		A/R			\perp	\sqcup		1	1_	L	_
4	9105740-44	30 AWG SOLID KYNAR INS WIRE YEL	LOW	A/R			\perp			\perp		L_	_
5	9105740-66	30 AWG SOLID KYNAR INS WIRE BLU	IE	A/R					\bot	上	_		
6	A-DC-7406371-0-0	LOGIC FRAME DECALS		A/R			L			L			
7	D-AD-5404491-0-0	H911 MTG PANEL		2						L			
8	5508153-01	BAR, ATTACHING		1_1_			L						
9	K-WL-TCØ8-Ø-14	WIRE LIST TCØ8		REI						\perp			
10	A-WT-7006394-0	AWT REVISION STATUS		REE						\mathbf{L}			
11	5508153-02	BAR, ATTACHING		1									
12	9006073-01	SCREW, PPH 10-32 x 1/2		4			L.						
13	9006669	WASHER, FLAT		4			\perp			L			
14	A-DC-7411881-01	DECAL, LOGIC ASSY		1									
15	3700040-0-0	PACKAGING INSTRUCTIONS		REF									
16	9905016-4	COMPRESS-O-CARTON		1				Ш		L			
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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

DATE 9-29-69

TCOS & TCOSN CHECKOUT PROCEDURES

	RE	VISIONS				
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
Α		7008-	LAZUKA	3.2770	k. T	4-14-76
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- EQUIPMENT REQUIREMENTS
 - TC08 Back Panel
 - TC08 Indicator System
 TC08 or TC08N Module Kit

 - TC08 and TC08N Logic Prints Set of TC01 Maindec's
 - 783 Power Supply or Equivalent

 - 716 indicator Supply Minimum of 1 TU55 or TU56 Transport
 - Dual Trace Scope
- B. PRELIMINARY CHECKS
 - 1. With all other modules removed, plug in the G821 power regulator and connect the power OK indicator across pins BØ1M2 and BØ1M2.
 - Inspect panel for discrepancies such as power bus shorts, broken module blocks, broken wires, bent or pushed in pins, and correct installation of the WRTM - normal switch.
 - By using a Mate-N-Lok connector, connect power to the regulator and apply power to the empty panel and check power bus for correct voltage.
 - Connect the 716 power supply to the indicator system and install cables. Power up the empty logic panel and the indicator system. All indicators except those that are deliberately tied to ground should be ON.
- C. PRELIMINARY CHECKS AND SETUP
 - 1. Plug in all modules and cables.
 - 2. Tast power clear for correct operation.

ENG	D.	Lazuka	APPD	SIZE	CODE	NUMBER TC08-0-16	REV

DEC FORM NO

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				0.00	180 CON.	INUATION SHE	ET
ITLE	TC08 &	тсови спеско	UT PROCEE	URE			
	3, Key	in the follow	ing instr	ructions			
	LOCA: ØØØØ ØØØ1 ØØØ2 ØØØ4 ØØØ4 ØØØ6 ØØØ7 ØØ11 ØØ12	7694 9818 1911 3895 1912 7492 5899 7492 9817 6769	LAS AND TAD DCA TAD HLT JMP	MONIC (ØØ17) (676Ø) (Ø4ØØ) START 1/O SKIP			
		program will	execute	IOT instr	uctions to	device 76 o	r 77

IOPS 1, 2, or 4 under control of AC switch bits 8-11.

- The IOT decoding should not be tested. By watching the outputs of the IOT decoders with a scope and placing the IOP in the switch register.
- Place $\not\!\!P\not\!\!P/4$ in the switch and set the XSA DY to the value noted on the prints.
- Key in the following program:

Start	gggg	7694	LAS
	ØØØ1	7949	CMA
	ØØØ2	39/15	DCA
	ØØØ3	2014	1S Z
	ØØØ4	5ØØ3	JMP1
	ØØØ5	20/15	15%
	ØØØ6	5993	JMP3
	0807	19/13	TAD
	8018	6764	DTXA
	ØØ11	5øøø	JMP (START)
	gg12	7482	HLT I/O SKIP
	ØØ13	Ø 4ØØ	
	ØØ14	øøøø	
	dd15	diddd	

This program causes the direction bit to X ORed at a rate determined by the contents of the switch register. This program generates U M and also fires the UNA DY which should new be set to the value noted on the prints.NOTE THE UPPER SWITCH ON REV B M307 SHOULD BE SET TO POSITION'1

SIZE CODE

D. Lazuka

DEC FORM NO DRA 108A

REV B

TITLE TC08 & TC08N CHECKOUT PROCEDURE

7. By removing the G888 in slot Al8 and adding a temporary jumper between D14K2 and D14U1, and also changing address 13 of the previous program to ALL ZERO's!! The program may be used to fire the 3P DY which should now be set to the value noted on the prints. After the SP DY is set, remove the jumper, insert the G888 back into slot Al8, and replace the original contents of address 13 (#4##).NOTE THE LOWER SWITCH ON REVERMING SPOULD RESET TO POSITION 4.

8. By adding the following instructions to the previous program, a tabe rocking program can be produced. Start program at

dilgitat

CONTINUATION SHEET

a tape rocking program can be produced. Start program at location 16.

ØØ16 76ØØ dd17 1023 CAP ØØ2Ø 6766 DTLA 5ØØØ 74Ø2 JMP START HLT I/O SKIP ØØ21 gg22 ØØ23 Ø2ØØ

By using the following program the write timing and mark track clock may be enabled:

Start 6600 10004 ሞልክ gggl 6766 DTLA ddd2 6764 6663 5002 JMP .-1 Ø26Ø

Place unit 8 on-line and write enabled. Place WRTM normal switch in the WRTM position. Start the program. The clock should be set to the valve noted on the prints.

D. BASIC TESTING

- The TCO1 basic exerciser (Maindec-08-D3BB-D) provides a comprehensive test procedure. The tests also follow in a logical sequence of testing. If this sequence is followed, checkout time and problems will be held to a minimum.
- After all tests of the basic exerciser have been run correctly, the DECtape formatter (DEC-08-EUFA-D) should be
- DECtrex 1 (Maindec-08-D3RA-D) should be made to run error free.
- The DECtape Library System (DEC-08-SUAl-LA) should now be tried. And made to run correctly.

SIZE CODE TC08-0-16

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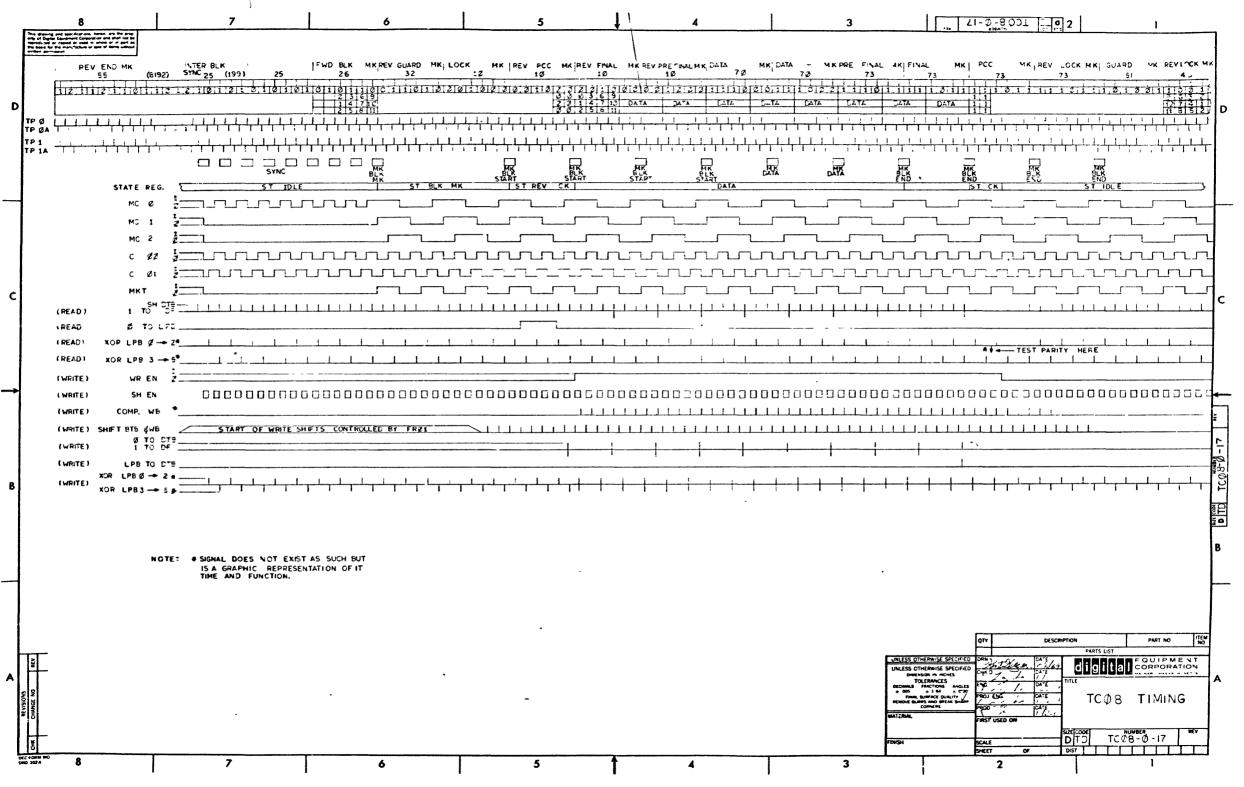
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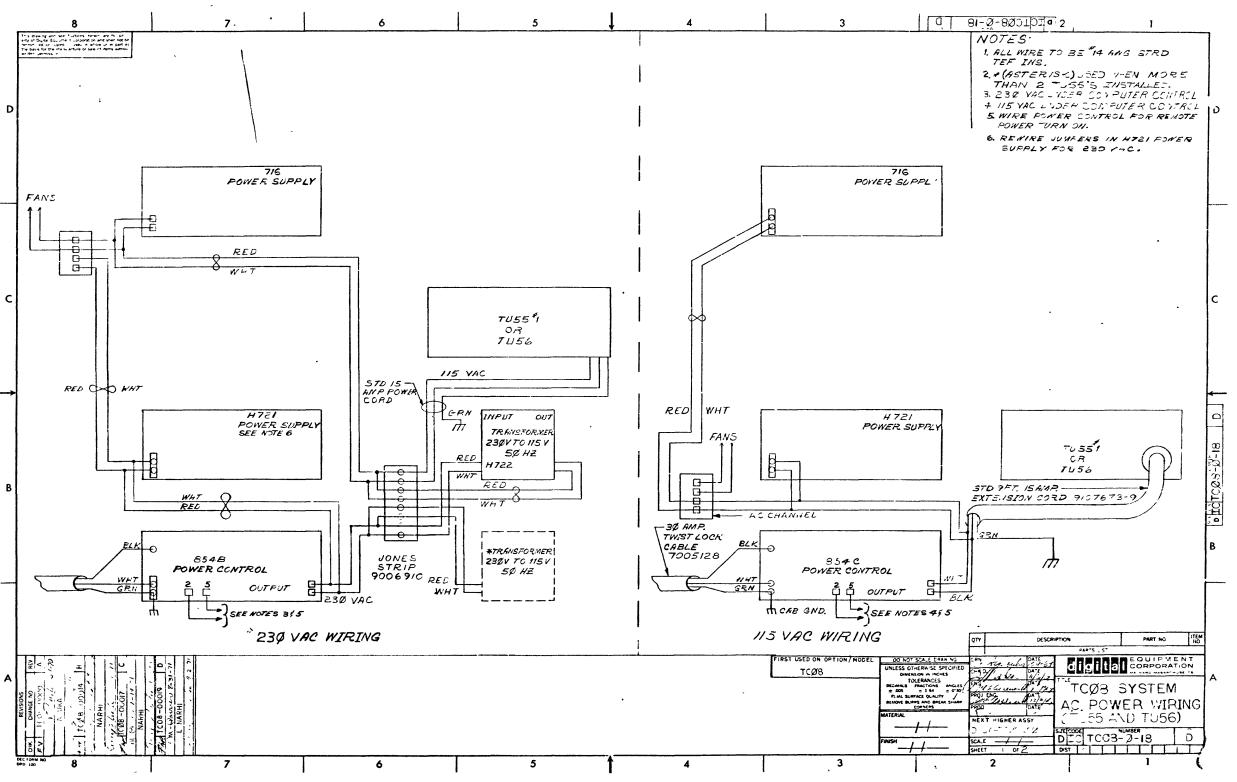
- ELEVATED TEMPERATURE TESTING
 - 1. The control must run DECtrex 1 for ONE hour error free at 55° centigrade.
- F. LIFE TESTING
 - 1. With all of the transports being shipped with the system, DECtrex 1 should be run for a minimum of ONE hour per transport.
- CLEANUP AND ADDITIONAL TESTS
 - 1. Checkout of the control is now complete.
 - 2. Most DECtape systems are shipped in a cabinet and the system must be run after its installation in the cabinet before

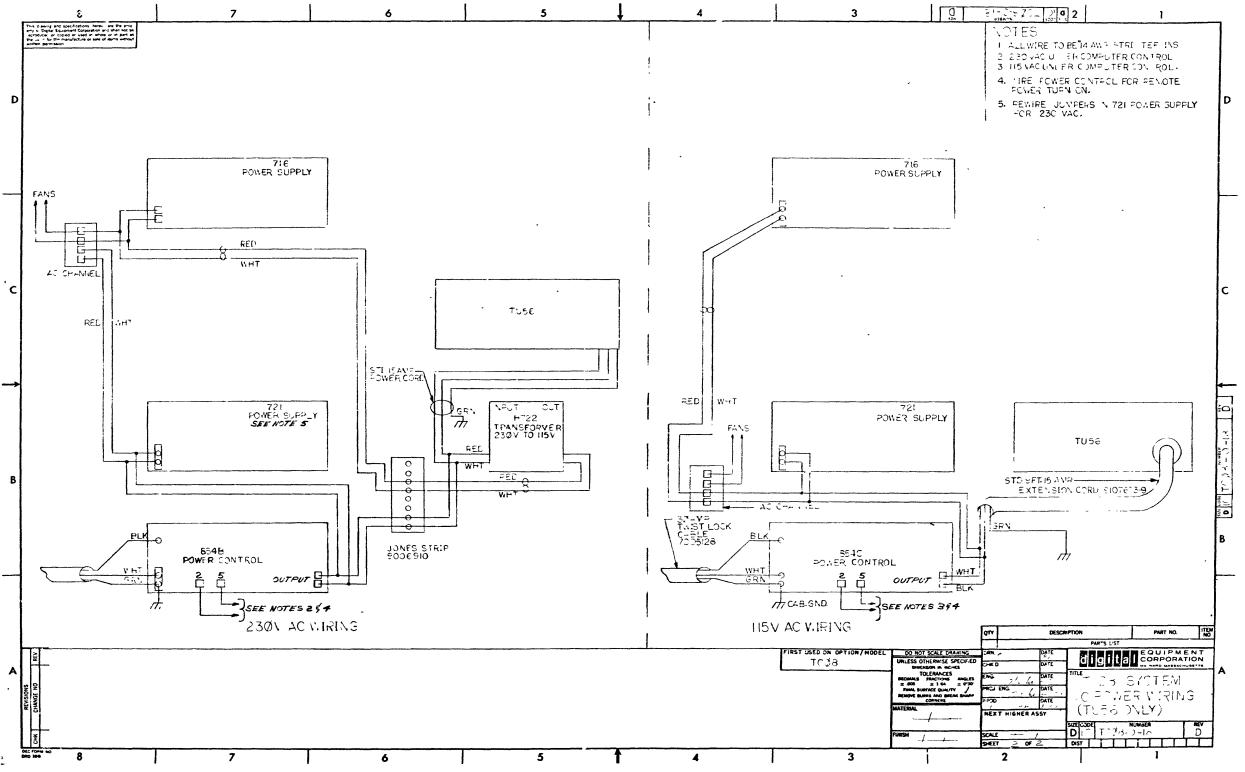
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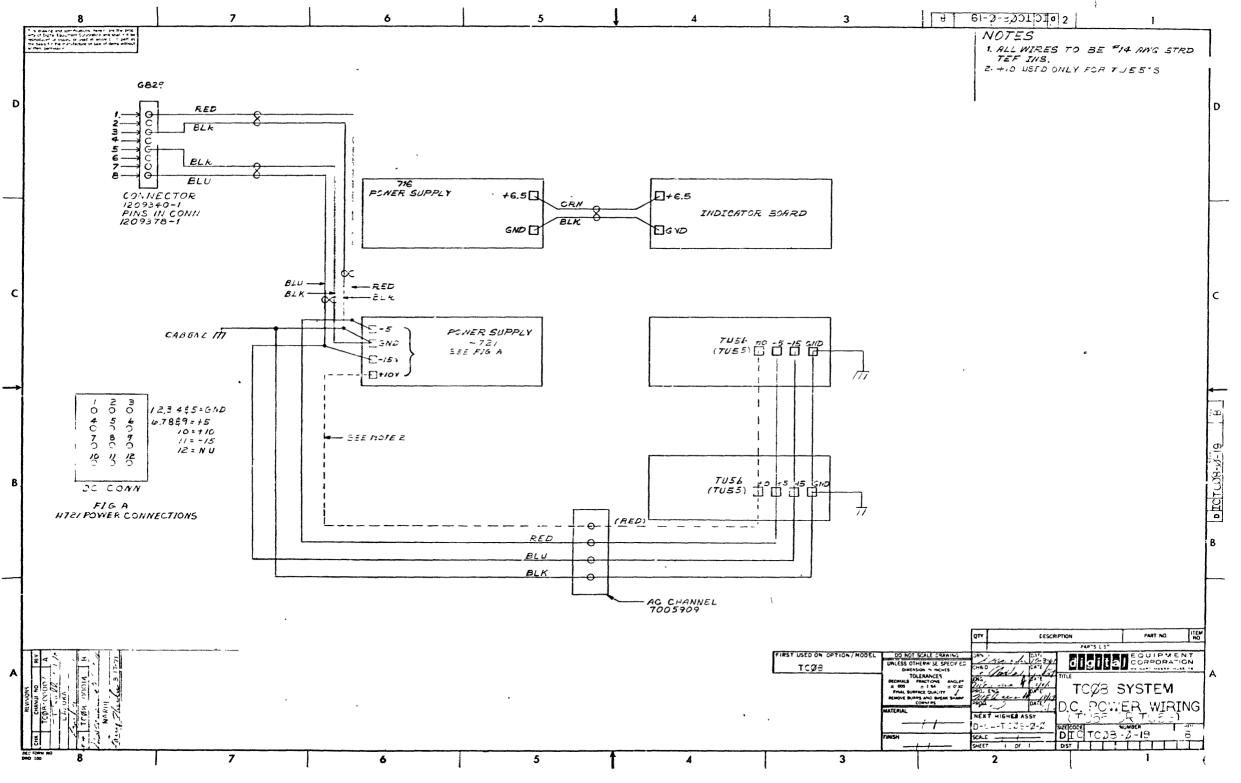
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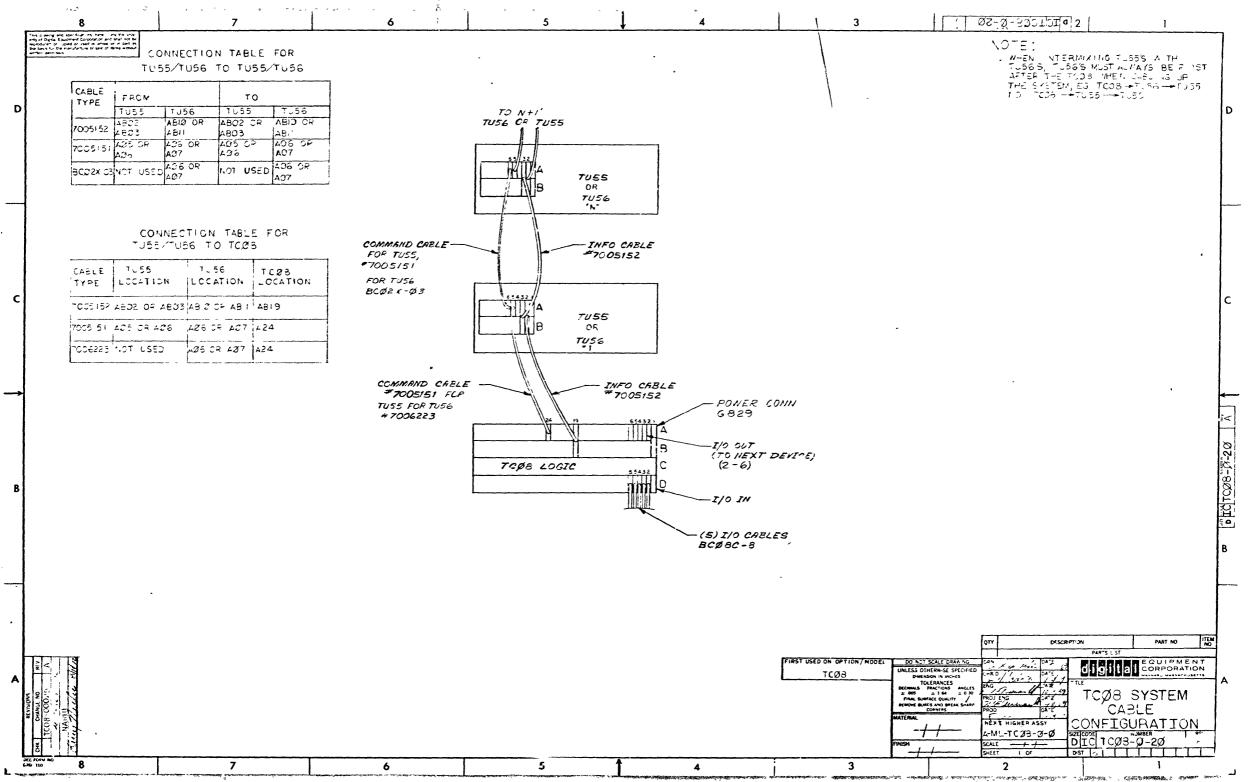
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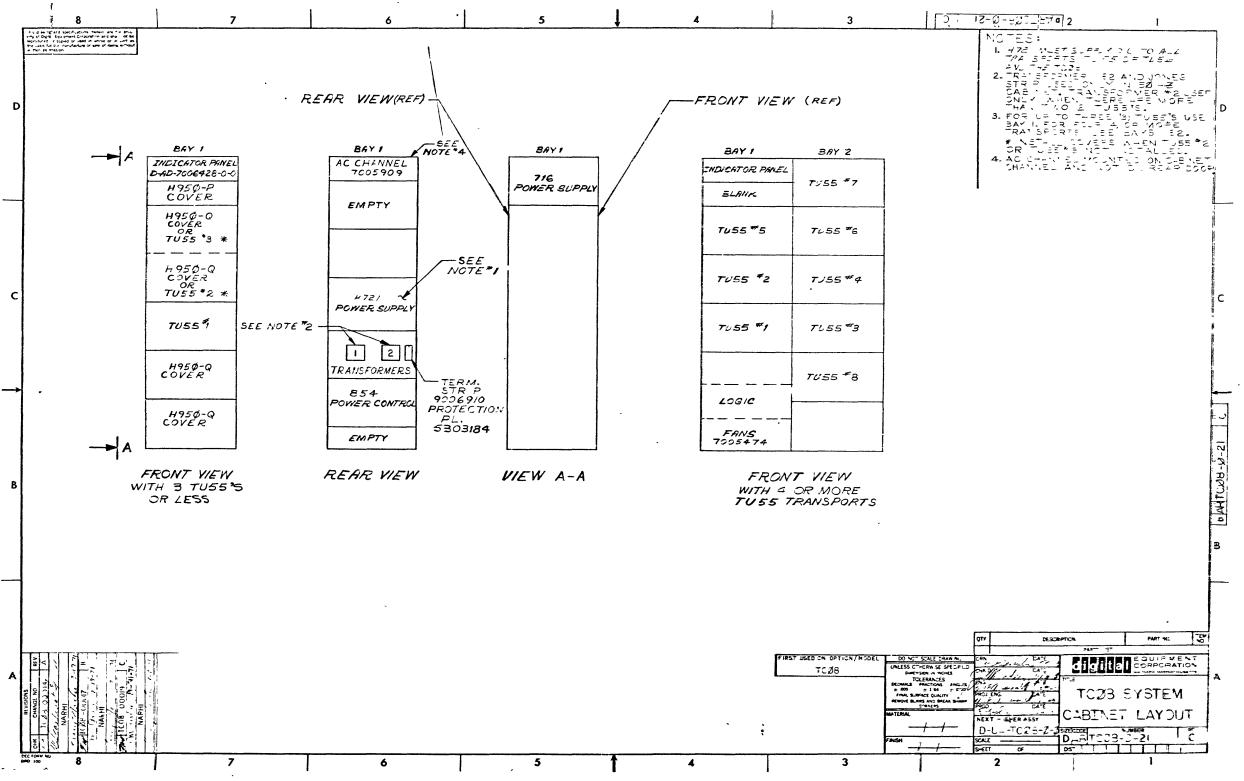












	DIGITAL EQUI MAYNAR	PMENT CO RD, MASSACHUS		ON	CONTINUATION SHEET
ENGIN	IEERING SPECIFICAT	ION	(DATE 10/2/70	TITLE TCM8 Acceptance Proced re
ENGIN TITLE	TCSS Acceptance Pro-	cedure REVISIONS	ORIG DATE	APPD BY DATE	Title TCM8 Acceptance Procedure by proces: To define the procedure to accept a TCMs, DECtape controller for shipmort. Test and arc. 1) A PDP-8 family computer 2) One or more TU35 or TU56 tape transports 3' TCMS indicator panel 4) 716 indicator supply 5) 783 or equivalent supply 6) A TCMS or TCMS-1 depending on the computer output bus polarity Test Software: 1) TCM1 Basic Exerciser 2) TCM1 Randon Exerciser Procedure: 1) Make size all ECO's have been instabled 2) Perform QC inspection 3) Make the Tasic Exerciser run on each transport 4) Run the Random Exerciser for a minimum of one hour for each drive that is to be snipped with the system of errors are acceptable.
					5) Run DECtape formatter program on each drive. 6) If the sister has extra memory, run the DECtape Extended Memory Exerciser for 1/2 hour ter drive transport. 7) If the system has any other Data Ercal devices, run the DMM1 Exerciser for a minimum of 1/2 hour. 8) Any standard DECtape system software may be run in acceptance at the operators discretion.
					S ipping Software 1) All DECtape MANDECS 2) Complete set of DECtape system software including Library system tapes. 3) TC#8 Print set of the latest revision.
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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS ENGINEERING SPECIFICATION TITLE TC08 Engineering S relification REVISIONS REV DESCRIPTION CHG NO ORIG DATE APPD BY	DATE						
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Table of Contents							
1.1 General Description							
1.1.1 A Computer Peripheral 1.1.2 Stores Digital Data on 3/4 Inch Magnetic Tape 1.1.3 Stores Data in a Three Track Serial/Parallel Peri 1.1.4 Data Can Be Accessed in Blocks 1.1.5 Data Can Be Accessed in Both Directions	1.1.2 Stores Digital Data on 3/4 Inch Magnetic Tapo 1.1.3 Stores Data in a Three Track Serial/Parallel Format 1.1.4 Data Can Be Accessed in Blocks						
1.2 Operational Description of DECtape	Operational Description of DECtape						
1.2.1 The Tape Surface Recording Format	1.2.1 The Tape Surface Recording Format						
1.2.1.1 DECtape Heads and Tape Tracks 1.2.1.2 Tape Recording Format							
1.2.2 The DECtape Architecture	1.2.2 The DECtape Architecture						
1.2.2.1 The Control Section 1.2.2.2 The Data Transfet Section 1.2.2.3 The Formatter Section	1.2.2.2 The Data Transfet Section						
1.3 TC08 Operator Controls and Indicators	TC08 Operator Controls and Indicators						
1.4 Programming Examples	Programming Examples						
1.4.1 Automatic Search	1.4.1 Automatic Scarch						
1.5 Equipment Description							
1.5.1 Hardware 1.5.2 Environmental Requirements 1.5.3 Power Requirements							

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ENGINEERING SPECIFICATION didital CONTINUATION SHEET TITLE TCOB Specification 1.6 Adjustment Procedures 1.6.1 Delays and Clock 1.6.2 Setting the Clock
1.6.3 The Unit or Motion Delay 1.7 Summary of Statistics BIZE CODE NUMBER REV DEC FORM NO 18-1092 DRA 108

ENGINEERING SPECIFICATION didital CONTINUATION SHEET TITLE TCON Specification

1.1 General Description

The DECtape system is a computer peripheral which stores digital data on 3/4 inch magnetic tape in a three track parallel/serial format, with which the data can be accessed in blocks which are read or written in both directions.

1.1.1 A Computer Peripheral

DECtape is a peripheral for the "8" ramily of Computers. Each DECtape system consists of a controller and from one to eight tape drives. The controller connects to the computer's I/O bus and communicates to the processor for control and status information; and directly to memory for data information. Each drive connects to the controller through a parallel bus through which both control and data information pass.

There are two controller models and two models of tape drives. Table 1-1 lists these models, and the computer systems on which they are used. Note that the TCOB and TCOB-N are functionally identical. Any significant differences will be indicated in the text.

Table 1-1 DECtape Model Numbers

Controller Model	Tape Drive Model	Computer System
тсов	TU55, TU56	PDP8/L, PDP-8/E
TCOR-N	TU55, TU56	PDP8/1, PDP-8

BIZE CODE NUMBER

DEC PORM NO 18-1022 DHA 108

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ENGINEERING SPECIFICATION digilal CONTINUATION SHEET TITLE TC08 Specification

Stores Digital Data on 3/4 Inch Magnetic Tepe

Each transport contains motors, tape heads. and the logic necessary for election, motion control and data transfer. Each drive can handle 260 foot reels of 3/4 inch at a density of 350 ± 55 bits per track inch.
The tame moves at a speed of 93 + 12 inches per second, and can store up to 190,000 17-bit words. The TU55 has one drive, and the TU56 has two drives.

1.1.3 Storee Data In A Three Track Serial/Parallel

> The data in the DECtape system is stored in a pacallel format, in that each 12-bit data word is divided into 4 3-bit bytes, and stored in parallel across three data tracks. The system storer the complete l'-bit word, cerially along the tape in four of these bytes.

1.1.4 Data Can Be Accessed In Blocks

> DECtape steres it: data words in blocks or groups. Each block can be randomly accessed in that it is identified by a block number or address, and the controller under the direction of the computer can select at random any block to write or read a group of words.

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> The length, or number of words in each plock is pre-determined when the tape itself is formatted. Formatting involves writing a timing track and a mark track on two (non-data) tracks of the tape, and numbering the data blocks. During formatting, the programmer can select the length of the blocks. Once set, the length cannot be changed without destroying data on the tape.

1.1.5 Data Can Be Accessed In Both Directions

> Each block can be identified by the computer no matter which way the tape is moving. Further, data can be read or written in either direction. This feature allows the programmer relatively fast search time since the tape does not have to be re-wound before a block can be searched out, and the programmer can begin to write no matter which end of the block appears first. It is important, however, that the programmer read and write the same data in the same direction, or else be prepared to unscramble it in the computer.

1.2 Operational Description of DECtape

Information flow within the DECtape system is determined by the recording format on the tape surface, and the internal architecture of the controller.

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1.2.1 The Tape Surface Recording Format

Two important DECtape features - individually addressable blocks and bidirectional reading and writing, are the result of the tape surface format. This stores not only data. iut also instructions telling DECtape what to do with the data.

1.2.11 DECtape Heads and Tape Tracks

Both the data and the instructions are stored in, or read from, the magnetic tape through read/write heads which magnetize the tape in one of two directions to represent a "O" or a "1", and read the same information back. There are te.. read/write heads distributed along the width of the tape, each head covering a narrow path called a tape track or channel. Figure 1-1 shows a tape stretched over the ten heads to indicate how the width is divided into ten tracks.

The ten tracks and heads are divided functionally into five pairs. The two outside tracks are called timing tracks. On these tracks signals are pre-recorded at a fixed frequency, and used to strobe information into or from the other tracks. The tape controller synchronizes on these pulses.

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ENGINEERING SPECIFICATION

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titi F TCOB Specification

> The two tracks next to the timing tracks are called mark tracks. These record the instructions which tell the TCO8 controller where the tage is and what type of data is stored in the associated information tracks. The information or data tracks are placed in the middle of the tape, where the effect of skew is at a minimum. As are the timing and mark tracks, the data tracks are paired up.

The high reliability of the recording/ reading system is because of the way in which the 10 tracks are divided into five pairs of counterparts. That is, five pairs of counterparts. That is, corresponding heads for each track are wired in series, and record and write the same information. During reading, the analog sum of the two heads is used to detect the correct value of the bit. Therefore, a bit cannot be misread until the noise on the tape is sufficient to change the polarity of the sum of the signals being read. During writing, corresponding heads record the same information.

in summary, the five pairs of tracks consist of - the timing tracks used to strobe the other tracks, the mark tracks which store instructions, and three data tracks. An 12 bit PDP-8 word, then, used 4 lines of 3 data bits each.

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ENGINEERING SPECIFICATION TCO8 Specification

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1.2.1.2 Tape Recording Format

A reel of tape must be pre-formatted before it can be used on the DECtape system. This involves logically dividing the 260 foot length into three zones - two end zones and a recording zone. The end zones are about 11 feet long and are used to wind tape around the heads and ito the take-up reel. They never contain any data. The recording zone contains the data.

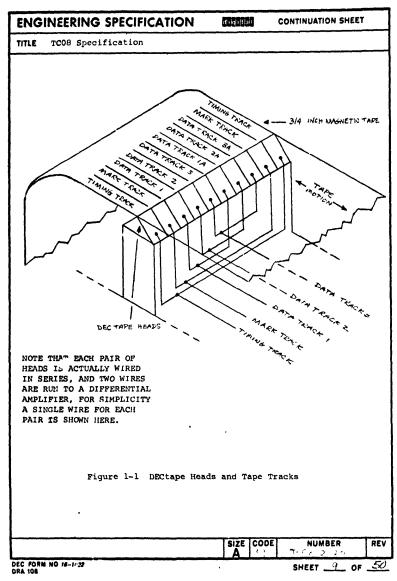
The recording zone is divided into blocks. Each block will store a specific number od data words and several control words, including its own address or block number. The number of words such a data block will store is determined when the tape is formatted. Normally, one rel is formatted with 1474 blocks, each with 129 12-bit words. However, the total length of the tape is equivalent to 884,736 lines which can be divided into any number of blocks up to 4,096.
Complete instructions on how to formut a tape are available in the DECtape Formatter. (The number of blocks is limited by this formatter).

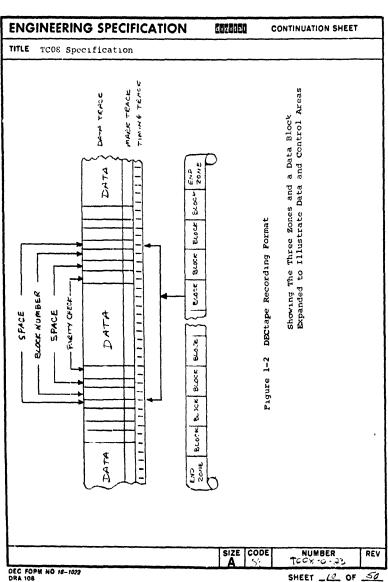
> SIZE CODE NUMBER

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ENGINEERING SPECIFICATION की वस्ता स CONTINUATION SHEET TITLE TCO8 Specification Each data block on the tape has the following characteristics: (fig. 1-2) 1. It is numbered and its number is contained in the data tracks of the block number area at either end of the block. This is to say that the computer can identify a block from its number by approaching the block from either direction. The block can then be read or written into, in either direction. 2. A longitudinal parity checksum is automatically calculated by the controller and deposited into the parity check area of the block. There is a parity check at either end of the block so that the checkend of the block so that the check-sum can then be deposited no matter in which direction data has been read or wirtten. When the data is read back, this checksum is recalculated and compared with the original. Any discrepancy is reported to the computer. Spaces are established to delineate blocks, and within each block, between the block number and the data area, so as to give the computer time to react to the number (i.e. set up the data parameters). The controller SIZE CODE HUMBER DEC FORM NO 16-1022 DRA 108 SHEET II OF 50

ENGINEERING SPECIFICATION digital CONTINUATION SHEET TITLE 9008 Specification identifies the different areas of a block, as well as the different senses

on the tape, from special codes rie-recorded on the mark track. These codes are not seen by the computer, and are of no interest to the magrammer except for the function that they perform. A more detailed breakdown of the mark track is given in Chapter 2.

1.2.2 The DECtape Architecture

The organization of the hardware in the controller is studied in three parts - the control, the data transfer section, and the formatter. These are shown in figures 1-3, 1-4, and 1-5.

1.2.2.1 The Control Section

The control section is that logic which comes under the supervision of the program through for instruction. (Table 1-2 describes the ICL in tructions) It consists of 7 registers and their associated logic. (Table 1-3 summarizes the decoding for each register.) Descriptions of the registers are as follows.

1. The Unit Select Register. A 3-bit register which feeds a binary to ortal decoder, which in turn drives eight select lines to the control cable. Each transport can be dialed into a

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ENGINEERING SPECIFICATION dhigattish CONTINUATION SHEET TITLE TC08 Specification particular selection address by means of a switch on the front of the transport If the number decoded from the Unit Select Register corresponds to the number selected on the switch then that transport will accept motion commands from the controller. If more than one transport is on the same number, then an error flag is posted as soon as an attempt is made to initiate operation. 2. The Motion Register. A 2-bit double buffered register that commands the selected transport to stop, go and move forward or go and move in reverse. Note that each transport remembers its motion, and if it is subsequently unselected without being stopped, it will continue until it is re-selected and stopped, or until it runs out of The Mode Register. This selects

either continuous or normal mode for each operation of the function register. The difference in response for each function to the two modes is explained in Table 1-4.

 The Function Register. This is
 3-bits long, and is decoded by a binary to octal converter to select one of a possible seven functions. An explanation of these functions is given in Table 1-4.

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> Enable the Interrupt. A 1-bit register which, when set, allows the controller to use its P1 interrupt system. When reset, it disconnect DECtape from the interrupt lines. When reset, it disconnects In the disconnect state none of the error conditions or DECtape flag can cause an interrunt. In no other way, however, is status P affected.

The ERROR Flags are flip flops which continually examine possible error conditions during the operation of the transport. Each condition is explained in Table 1-5.

The DECtape flag is also a single flip flop which sets, either when an operation has been successfully completed, or when it has been aborted as the result of an error.

The unit Select, Motion, Mode, Function and Enable registers are all set from the accumulator by the XOR status Λ IOT. The bits of Figure 1-5 indicate the accumulator bit which sets each flip flop. The two bits not shown, bit 10 and 11, clear the error flags and the DECtape flag respectively, if they are set to a zero in the AC du-ing an XOR instruction. plete word from 1 to 11 in known as Status A.

SIZE CODE

ENGINEERING SPECIFICATION digidlat CONTINUATION SHEET TITLE "CO8 Specification

> All of these bits 0 to 9 can be read back into the computer under the instruction Read Status A.

The error flags can also be read into the accumulator into AC bits which correspond to the bits shown in Figure 1-3. Further, the DECtape flag is read into accumulator bit 11. Bit, 0-6 and bit 11 are known collectively as Status B. The TOT instruction which reads them is called

In Summary, the Status A registers are set under IOT command. They determine the operation to be performed, the transport which is to perform that operation, the direction of motion, operation, the direction of motion, and the mode. Any errors are communicated to the computer through the interrupt logic. If an operation is successful, then that too is communicated back to the computer, which then takes further action. The actual information transfers are taken care of through the multi cycle data break facility under the direction of the data transfer logic.

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ENGINEERING SPECIFICATION digittat CONTINUATION SHEET TITLE TCOR Specification

Table 1 - 2

Mnemonic	emonic Octal Code Description		
DTCA	6762	Clear status register A. The DECtape control and error flags are undi turbed (D.F and II).	
DTRA	6761	Read status register A. The content- of status register A in CRed into the accumulator.	
DTXA	6764	XOR status register A. The exclusive CR of the content of bits 0 through 9 of the accumulator and status A is loaded into status register A, and bits 10 and 11 of the accumulator are sampled to control clearing of the error and DECtang flags, respectively. The WC overflow flags cleared.	
D'I'LA	6766	Load status register A. Combines action of DPCA and DPXA to load ACO-9 into status register A. Pits 10 and 11 concrol clearing of error and DECtape flags, respectively.	
DTLB	5774	The 3 memory field bits are loaded from AC bits 6-8. The AC is cleared and the error flags are left undisturbed.	
DTRR	6772	Read Status B. The AC 10 cleared and the content of status B is ORed into the accumulator.	
יוסידס.	6771	Ship on DECtape flag. The state of the DEC tape flag (DTP) is sampled. If it is set to a 1, the content of the PC is incremented by one to skip the next sequential instruction.	

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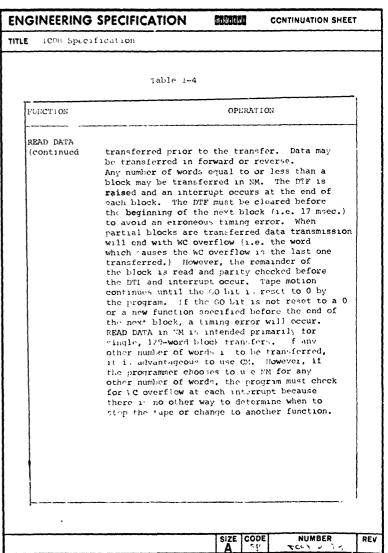
NGINEERIN	G SPE	CIFICATI	ON	3131131	CONTINUATION SHEET	
LE TCOS S	pecific	ation				
	TAI	BLE 1-3 S	tatus A-	-bit Assign	ments	
Register	AC B1t	Register Bit			Decoding	
Unit Select (USR)	0-∠	0-2	000 001		Unit O or 8 1	
			010 011 100		2 3 4	
			101 110 111		5 6 7	
Motion (MR)	3	Ø	0 = 1 =	Forward (F Reverse (F	•	
	4	1	0 = 1 :	Stop motion Start moti		
Mode	5	ø	0 = 1 ≈	Normal Mod Continous		
Functior (FR)	6,7,8	0,1,2	000 001 010	Operation Move Search Read Data		
			011 100 101	Read all Write data Write all	a	
			110	Write time Unused (ca	auses select error;	
Enable the Interrupt (ENI)	9	Ø	1 =	Enable DEG (DFCF) to interrupt	Ctape control flag the program	
Erior flag (EF) DECtape flag	10 11		0 == 1 == 0 ==	Error flac	error flags gs undisturbed tape flag	1
(DTF)		•	1 =		lag undisturbed	
				SIZE COL		REV

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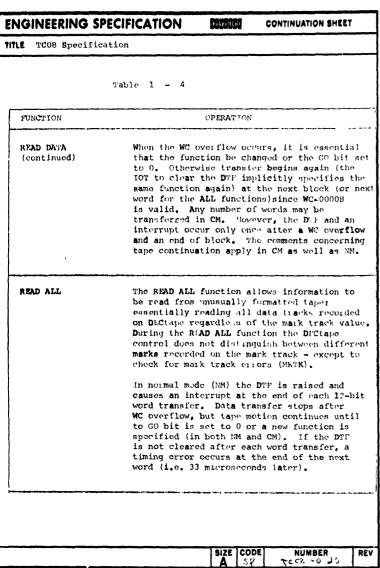
SHEET _17 OF _50

TE TOOK Speci	fication				
	Table 1 - 4 The	DECtape In	nctions	>	
FU'.CT ION	gynngydd i ffyddioleithiol y feligiol feligiol y gynnydd y gynnydd y gynnydd y gynnydd y gynnydd y gynnydd y g Gynnyggol y ffyddioleithiol y feligiolydd y gynnydd y gynnydd y gynnydd y gynnydd y gynnydd y gynnydd y gynnyd	OPERA's ION			
MOVE	Code 000 c tape motic provided on is read, he is decoded and causes If the tap stopped, n	of bits 6, 7 on in the se 30 is also count only the 1, and of the control of control of the continues of is not do	elected on. The end of tape pos upt to t s unselectorus		ag
SEARCH	blocks. In the mark of control to specified. The current so that so the same is ancremis passed DECtape for the detect program continuou	When a block track, the in- cansfers the by the current address: uccessive bi- address. The ented, hower if the main set- ed. This can ar identify	c number three-continumber on the deck number of the word wor, as beach the uses an the blanterru	to search for r is detected by yield data break r into the addr dreas register. r is not increment register cach block number to normal, met to normal, met to number. In interrupt and ock number. In the cours until reflows.	nent toss to the the the
		SIZE	CODE	NUMBER Tcos	TR

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	Table 1 - 4				
TULICTION	OPE	RATION	•		
SEARCH (Centinued)	both modes ar 1. The curre normal me 2. The diffe block num corrected 3. If the di current h different 4. The two's loaded in 5. The funct mode. 6. On the no over the	the used on the block of the block of the block agreed of the state of	etween computers is re ain an rwise ment cohange rrupt block addre	oversed, read the not compute the new go to 4. of the difference count register. of to continuous, the transport is k. The block	ed ti
READ DATA	into core men length is 129 all following initially mus memory locati 16 increments the WC locati each word tra	ory. The second of the second	words words ns, ' t to Beca pefore lso n	s. For this and the CA location	on er
,				•	
		SIZE	CODE	NUMBER	R



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> DEC FORM NO 16-1022 DRA 108

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ENGINEERING SPECIFICATION वास्त्र । । । CONTINUATION SHEET TITLE 1008 Specification Table 1-4 Punction Operation READ ALL For continuous mode, the DTF is raised and causes an interrupt at WC overflow orly. (Continued) If this interrupt is ignored no more data ansfers occur but tape motion continues .o. WRITE DATA The write enable switch on the TU55 or TU56 must be in write enable position for all WRITE functions. All the details of the RFAD DATA function description apply with the following exceptions. In normal mode, the DTF is set to a l at the end of each block. If WC overflow did not occur in the block just ended and a new function is specified, the next block will be processed provided the DTF has been cleared. If WC overflow did occur in the block just ended and no new function is specified, the tape continues to move but the writers are disabled, and an error will occur. The remainder of the block is written with In both CM and NM when partial blocks are written, data transfer from core to DECtape stops at WC overflow. All zeroes are written in the remaining data words of the block and the parity check character is computed over the entire block and recorded.

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ENGINEERING SPECIFICATION display or CONTINUATION SHEET TITLE TCO8 Specification Table 1 - 4 PURCTION OPERATION In continuous mode, the D/T is set at the end of the block in which WC overflow occurred. WRITE DATA Therefore, if no new function is specified, the tape continues to move but the writers are disabled, and an error will occur. WRITE ALL All the details of the READ ALL function description apply. The WRITE ALL function is used to write an unusual format (such as block numbers on DECtape after timing and mark tracks have been recorded). The word which causes WC to overflow is the last one written in NM or CM. The tape continued to move but the writers are disabled. NOTE: Change of function must be delayed for 90 microseconds to in we recording of last word. Alternative method: not WC to one greater than desired number of word transfers and change function within 40 microseconds after WC overflow. NOTE: The WC is in location 7750 The CA is in location 7751 SIZE CODE NUMBER DEC FORM NO 18-1022 DRA 108 SHEET 35 OF 50

ENGINEERING SPECIFICATION digitali CONTINUATION SHEET TITLE TC08 Specification Table 1-5 The Error Flags ERROR FLAG Five types of errors can be detected in the use of DECtape: l'iming Error Parity Erros Select Error End of Tape Mark Track Error For all errors the EF is raised, a bit is set in the status register and an interrupt occurs (if the enable-to-interrupt but has been set). The DTSF instruction skips on the inclusive OR of those error bits; hence, each status bit must be checked to determine the kind of error. For all but the parity error, the selected transport in stopped and the EF is raised at the time of the error detection. No DTF occurs. For a parity error, the GO bit remains 1 (i.e., motion continues) and the EF is raised simultaneously with the DFF in FM. Only 1 interrupt occurs; hence the program must check the IIF.

SIZE CODE N

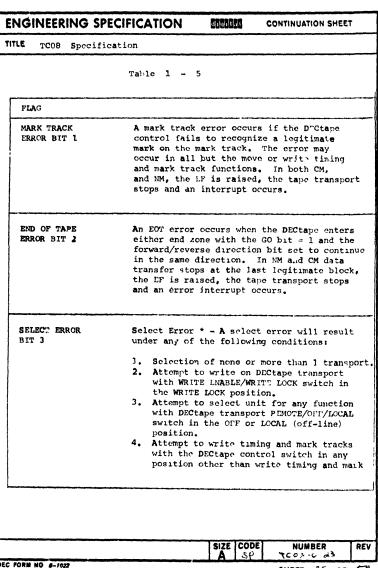
A parity error in CM raines the EF at the end of the block in which the parity occurs

causing an interrupt (if enabled). If no program action is taken, e.g. stop transport or reverse and re-read, data transfer continue and the DTF is raided and causes an interrupt

at WC overflow and end of final block read.

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ENGINEERING SPECIFICATION dugetal CONTINUATION SHEET TITLE TC08 Specification Table 1-5 FLAG SFLECT ERROR track. Attempt to perform any function other than write timing and mark tracks with the (continued) DECtape control switch in the write timing and mark track position. Attempt to execute unused function (Octal code 7). *No-tape or tape-run-off-reel conditions are not detectable. Parity Error - A parity error occurs only during the READ DATA function for a PARITY ERROR hardware computed parity check character (PCC) failure. TIMING ERROR Timing Error - A timing error (program malfunction) is a data miss or program failure to clear the DTF status bit. A timing error occurs also if the program switches to READ or WRITE DATA function while the DECtape is currently passing over a data area on tape.

SIZE CODE

NUMBER

ENGINEERING SPECIFICATION digital CONTINUATION SHEET TCOR Specification 1.2.2.2 The Data Transfer Section The data transfer section (Figure 1-4) handles the flow of information between the multi cycle data channel of the computer, and the magnetic read/write heads. There are two types of information - data, and instructions from the tape which tell the controller what to do with the data. The instructions are recorded on the mark track, which feeds the window register and subsequently the data control logic. This combination looks at the mark track codes and from them determines whether the tape heads are over end zones or recording zones; and if over recording zones, where in any particular block. Meanwhile, data from the three data heads, and timing pulses from the timing track heads are feeding the data buffer and the data control logic respectively. The timing pulses are used to strobe the mark track and data track information at the proper time. Data comes into the controller in bytes of three, therefore the data buffer is basically two 6-bit shift registers. As the data is shifted in, the longitudinal parity buffer calculates the parity of each track. When a complete block has been road, this buffer should be all ones if no error has been detected. it is not all ones, then a parity error flag

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NUMBER

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is raised.

SIZE CODE

During a Read operation the data buffer accumulates a complete 12-bit word, and transfers it to the DECtape buffer for temporary storage. The Data Channel flag is then raised and a multi cycle data chennel bleak initiated. During the break, this word is transferred out of the DDCtape buffer into the location specified by the current address register at location 7750. would count at location 7751 is incremented. The computer is allowed a maximum of 33 us. to complete this operation.

If the computer has not responded in time, an error flag is raised to show the timing error.

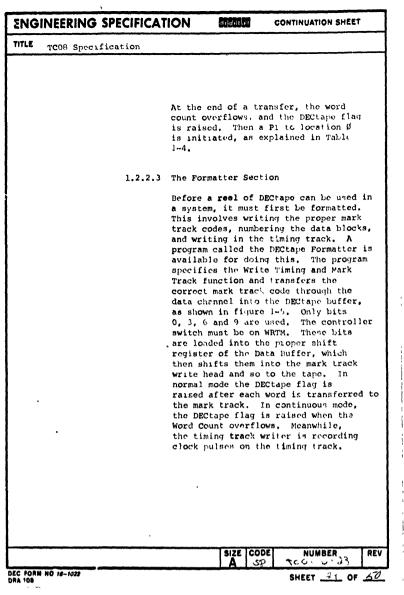
Alternately, if a write operation is required, the TCO8 requests a multi-cycle data chennel break. The computer transfers the word to be written into the DECtape buffer, which is then transferred into the Data Buffer at the right time. From the data builfer it is shifted out and written onto the tape. Meanwhile, the 1008 requests another word from the computer as soon as the DECtape buffer is emptied into the Data Buffer, and the TCO8 is ready to write the next piece of data.

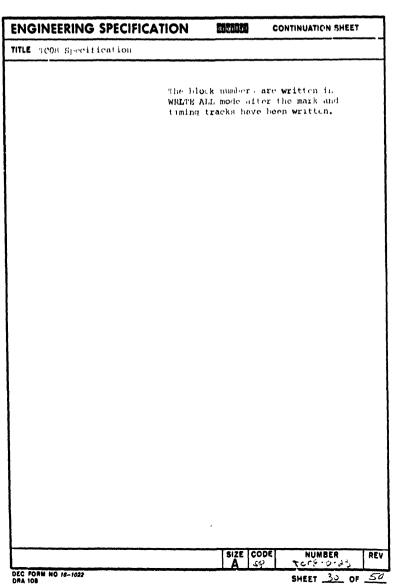
NUMBER

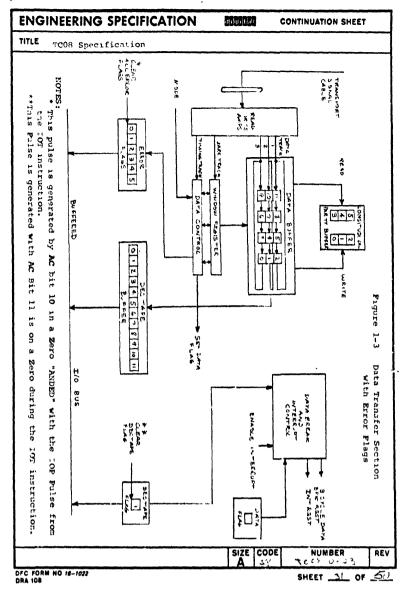
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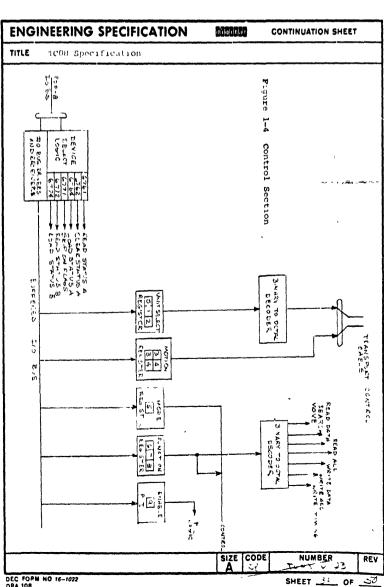
DEC FORM NO 16-1022 DRA 108

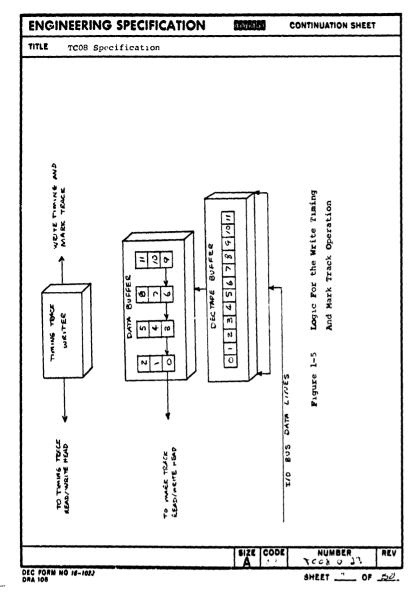
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1.3 TC08 Operator Controls and Indicators

The single switch, WRTM/NORMAL, and an array of lights are all with which the operator of the TCOB controller need concern himself. The operation of the transports is explained in their respective manuals. The TCOS switch (located on the left-hand side of the logic panel) puts the controller in write timing and mark track mode or else in normal, or every other mode, depending on the settings, SWTM or NORMAL respectively. Table 1 -6 summarizes the function of each indicator.

Table 1 - 6 The Indicator Panel

INDICATOR NAME	INDICATOR FUNCTION
USR	The Unit Select Register which specifies which transport is to be activated.
MR	The Motion Register specifies the three possible movements of the reel.
FR	This four-bit Function Register specifies or of several possible operations in either of two modes.
ENI	Enable the interrupt when on indicates that the controller can cause a program interrupt when an error flag or the DECtape flag is set.

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dialokitlosi CONTINUATION SHEET TITLE TC08 Specification Table 1 - 6 INDICATOR INDICATOR FUNCTION NAME TIM This flag indicates timing errors. This lamp reflects the state of the DECtape flag. (ON indicates an operation completed). DF The Data Flag is set when the controller needs to transfer a data word through the thre -cycle break. The Word Count flag is zeroed whenever the word count register overflows. This is the output of the up to speed delay. When the light is on it indicates that the tape is not yet up to speed. SIZE CODE NUMBER REV SHEET 16 OF 50

ENGINEERING SPECIFICATION TITLE 1008 Specification Table 1 - 6 INDICATOR INDICATOR FUNCTION NAME This flag is set if any one of the five following EI error flags come up. These conditions stop transport motion, except for the parity error of bit 4, and all cause a program interrupt if the facility is enabled. The output from the mark track instruction MK register is tested every time an instruction appears. If no instruction appears, this indicates that the mark track is not recorded properly and therefore an error has occurred. MK and therefore EF are set. If the instruction register of the mark track decodes an end zone indicator, this flag and END EF are set. A subsequent program interrupt stimulates the computer to determine the cause of the interrupt. This flag indicates select errors when control SE switch states and Status A function states are compared and found incongruous. This error occurs if the longitudinal parity buffer shows an error at the end of a block during a read data function. PAR NUMBER REV DEC FORM NO 18-1022 DRA 108

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CONTINUATION SHEET

COS Specif	ication
	Table 1 - 6
INDICATOR NAME	INDICATOR PUNCTION
UT S	This Up-to-Speed flip-flop is set as soon as the tape transport reaches an acceptable speed.
٧	This flag, when set, indicates that the writers are enabled.
WIM	This means the SWTM/NORMAL switch is in write timing and mark track mode (SWTM).
LPB	These six indicators reflect the state of the Longitudinal Parity Buffer.
STATE	These bits make up the state generator, a ring counter, which steps from an idle state through five other states and back to idle, as a block passes the tape heads.
	SIZE CODE NUMBER

ENGINEERIN	G SPECIFICATION	010110	1	CONTINUATION SHEET	
TITLE TC08 Spec	cification				
	Table 1 - 6				
INDICATOR NAME	I	ND TCATOR	FUNCT:	ION	1
ВМ	Block Mark is the generator moves. block makr is in t	It is set	when	forward	
RC	The Reverse Checks Reverse PCC Mark c				
D.	The Data State sta contains data (The finishes when the Prefinal Mark) Pas	Reverse next-to-1	Final ast da	Mark) and ata block (the	
F	The Final State oc which contains dat				
CK	The Checksum State cell passes the he the checksum is de the TCO8 is writin error, if the TCO8	ads. Dur posited i g; it che	ing the n the cks fe	nis state, PCC Mark, if or a parity	
ī	The idle state.				
-					•
		SIZE	CODE	NUMBER 7005 C. 43	REV

	SPECIFICATION TOTALS CONTINUATION SHE
	Table 1 - 6
ND I CATOR NAME	INDICATOR FUNCTION
MC	These three bits represent a three-bit switched tail counter composed of bits MC00, MC01, MC02.
CO, C1	These are the flip-flops which constitute the counters of the timing generator.
DTI)	These lights reflect the statesof the 12-bit DECtape buffer.
WINDOW	The Window Register is a simple shift register which receives the instruction codes from the mark track and uses the codes to set the State Generator.
as a	
	SIZE CODE NUMBER

ENGINEERING SPECIFICATION digitai CONTINUATION SHEET TITLE TC08 Specification 1.4 Programming Examples The following is an example of programming the TCO8. The program is written in PDP-8 Assembler languages. Problem: Find a given block, number 5. The transport number is 3. INSTRUCTION TAG SRCH, TON /Turn on PI CLA /Status A code for search,etc /Clear Status A /Load Status A TAD 3614 DTCA DTYA JMP I SRCH /Return ØØØØ 1, JMP FLAG DTSk JMP + 2 JMS TAPE FLAG /Skip on flag /Error, DECtape flag was not set. Another system flag HLT caused the PI TAPE. CLA DERB /Read Status B /None feature b /Store it away /Mask for flag /Flag is on /No flag - something wrong DCA TEMP ALD 0001 SZA HLT CLA /Return Status B
/Test for error flag TAD TEMP AND 1000 SZA JMP ERROR /Go to error subroutine
/Go to subroutine to get block JMP BLKNO

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NUMBER

SIZE CODE

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ITLE	TC08 Specification			
	BLKNO,	CLA		
		TAD I CA	/Get 1	block number
		TAD 7773	/Test	for block 5
		SNA		
		JMS WRT ,	/This	is block 5-start writin
		CLA	/Not 1	olock 5
		TAD 5	/Get a	a 5
		CIA	/Make	2's compliment of 5
		TAD I CA	/Add p	present block
		CIA	/2's c	compliment it
		DCA WC	/Put 1	result in WC
		CLA		
		TAD 0100	/Get r	next Status A
		DTXA	/X OR	into Status A. CM
		ION	/Turn	PI
		JMP I SRCH	/Go ba	ack to main program

SIZE CODE NUMBER REV

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TITLE	TC08 Specification		

1.5 Equipment Description

1.5.1 Hardware

The TCOS Consists of two mounting panels of M series logic, an indicator panel, and associated power supplies and controls. The logic and indicator panel are mounted in the same cabinet as the power supplies, the power control and tape trunsports according to the configurations described in the PDP-5 Installation Manual.

1.5.2 Environmental Requirements

The DECtape system is designed to operate in a temperature range from 65 F (18 C) to 90 F (35 C) at a relative humidity of 10% to 55% with no condensation. The air should be free of dust and corrosive pollutants.

1.5.3 Power Requirements

Table 1-7 lists the primary power requirements for a DECtape system.

Table 1-7 DECtape Power Requirements

Configuration (no. of	No. of Cabinets	AC Current	Dissipation			
Transports) TU56		(Amps) ·	Heat BTU/HR (max)	Power (KW)		
1	1	4	1,516.6	446		
2	1	:	2,706.6	796		
3 .	1	10	3,896.6	1,146		
4	2	13	5,086.6	1,496		

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1.6 Adjustment Procedures

1.6.1 Delays and Clock

- 1.6.1.1 The posts on the G888 reader writers should not be adjusted. They are pre-set in Module Production.
- 1.6.1.2 Set the XSTA Dy to 5 us. This delay will be triggered by the following program:

ADDRESS	INSTRUCTION	DESCRIPTION
0000	7604	Load AC from SR
0001	6766	Load Status A
0002	5000	Jump to Zero

The output of the delay is on pin D18T2. Adjust the bottom pot of the M302 in D16 so that the output signal has a positive duration of 5 microseconds.

- 1.6.1,3 The Status A register can also be tested with this program. By placing the data switches to A "1", the corresponding Status A bits will be set
- 1.6.1.4 To check tape motion, set switches 0,
 1, and 2 to select a transport and 3
 and 4 to determine direction and motion.

1.6.2 Setting the Clock

1.6.2.1 The M401 clock will be enabled by the following procedure. Do not attempt to ground any signals with jumps; or modules may be destroyed. Toggle in the following program.

SIZ	CODE	NUMBER	REV
Ι Δ	133	TC 68.0-13	1

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ENGINEERING SPECIFICATION digilai CONTINUATION SHEET TITLE TC08 Specification

	DESCRIPTION	INSTRUCTION	ADDRESS
SR	Load AC from	7604	0000
Α	Clear Status	6762	0001
	XOR Status A	6 / 6 ?	0002
	Clear AC	7200	0003
	Jump to 2	5002	0004

Remove the tape from the transport and place it on line write enable. Turn the switch WRTM/NORMAL to WRTM. Set the data switches 4, 5, 6 and 7 to a one (1); hit Load Address and start. WRTM function will be executed on unit eight (8), and the clock will run.

The output of the clock is on pin D15D2. Adjust the pot on the M401 in D15 so that he pulse repretition rate at this pin is 8.33 microseconds.

1.6.3 The Unit or Motion Delay

- 1.6.3.1 Load the DECtape basic exerciser and run test zero (0) to make the tape rock.
- 1.6.3.2 The output of the U + M Dy is on pin D14K1. Adjust the top pot on the M307 in D14 so that a positive signal with a positive duration of 120 milliseconds appears on this pin.

1.6.4 The Rate Delay

1.6.4.1 The output of the SP Dy is on pin D14HZ. Adjust the bottom pot on the M307 and D14 for a positive signal with a duration of 70 microseconds on this pin.

1.6.5 Cross Talk Delays

1.6.5.1 The output of TPO XTLK Dy is at pin A14F2. Adjust the top pot of the M302 in slot A14 so that this pin gives a rositive signal with a duration of 10 microseconds.

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> 1.6.5.2 The TP1 XTLK Dy output is at pin A14T2.
> Adjust the bottom pot of the M302 in
> location A14 so that this pin gives a
> positive signal with a duration of 10 microseconds.

1.7 Summary of Statistics

The following tables summarize the errors, functions, flags and critical timing specifications of a DECtape system.

Table 1-8 Summary of Errors

FUNCTION	ERROR (IN NORMAL OR CONTINUOUS MODE)
Move	Select Error EOT*
Search	Select Error EOT*
	Timing Error
	MK TRK Error
Read Data	Select Error
	EOT*
	Timing Error
	Parity Error
	MK TRK Error
Read All	Select Error
	EOT*
_	Timing Error
,	MK TRK Error
Write Data	Select Error
	EOT*
	Timing Error
	MK TRK Error
	*End of Tape

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GIN	NGINEERING SPECIFICATION MINIOR CONTINUATION SHEET				
	TC08 Specification				
		Table 1-8			
	FUNCTION	ERROR (IN NORMAL OR C	ONTINUOUS MODE		
	Write All	Select Error			
		EOT*			
		Timing Error			
		MK TKK Error			
	Write Timing	Sclect Error			
	& Mark Tracks	Timing Error			
		*1	ind of tape		

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.Е	тс08 вр	ecification	1				
			Table 1-9 Sum	marv of Fu	ınct	ions	
			,			20113	
FUI	NCTION	NORMA!	L MODE (NM)	CON	LINU	OUS MODE (CM)	
0.	Move	DTF: No I	terrupt				1
1		CA*: Igno		Sai	me a	s NM	
		WC**: Igno					
1.	Search		rrupt at each	DT		nterrupt at each	
		bloc	k mark			lock mark if WC has verflowed	
		CA: No i	ncremented	CA		ot incremented	
1		WC: Incr	emented at	AW		ncremented at each	
		each	block mark		þ	lock mark	
2.	Read		errupt at end	Dr		nterrupt at end of	
	Data	of	each block			lock if WC has	
				_		verflowed.	
			remented at h word transfe			ncremented at ach word transfer	
			n word transfe remented at			ncremented at each	
			h word transfe			ord transfer.	
3.	Read	Dry: Int	errupt at each	DT	r: I	interrupt at WC	
	All	wor	d transfer			verflow	
l			remented at ea	ich c		incremented at each	
ı		wor	d transfer		*	ord transfer.	
							ŀ
	~~~~						_
		•					
	•						
	•						
				SIZE	CODE		REV
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TITLE TC08 Specification Table 1-9 FUNCTION NORMAL MODE (NM) CONTINUOUS MODE (CM) WC: Incremented at each WC: Incremented at each word transfer word transfer Write Same as 2. Same as Read Data Data Write Same as 3. Same as Read All Write Same as 3. Same as Read All Timing & Mark Tracke 7. Unused*** *Current Address (CA) is in location 77%1
**Word Count /WC) is in location 77%0
***If used by mistake, the control gives a

Select Error (SE)

digital

CONTINUATION SHEET

**ENGINEERING SPECIFICATION** 

REV

SIZE CODE

SIZE CODE

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REV

LE TCOS Specification		TITLE TC08 Specification	
Table 1 - 10 Summa	ary of Timing		
OPERATION	TIME	Table 1-	10
Time to answer data channel request	Up to 33 microseconds	OPERATION	TIME
Nord Transfer Rate	1 12-bit word every 133 microseconds	DTF to beginning of next data	1.7 milliseconds
Block Transfer Rate	1 129 Block every 25 milliseconds	plock	at a marriage of the
itart Time	375 mill:seconds ( <u>+</u> 20%)	DTF Occurrence: Move: NM, CM	Never
Stop Time	375 milliseconds ( <u>+</u> 20°4)	Search: N.1 Read Data: NM Write Data: NM	Every 54 millisecond
Nrn Around Time Search - Read Data Function	375 milliseconds (± 20%)	Search: CM Read Data: CM	(WC) X53 millisecond (No. of blocks)
change for present block	Up to 400 microseconds	Write Data: CM	X53 milliseconds
Search - Write Data Function change for present block	Up to 400 micorseconds	Read All: NM Write All: NM Write Timing & Mark Tracks: NM	Every 33 nicrosecond
tead - Search Function change for next block number	Up to 1000 microseconds	Read All: CM: Write All: CM	(WC) 33 microseconds
Write - Search Function change for next block number	Up to 1000 microseconds	Write Timing & Mark Tracks: CM	
	1		
	•		•
		;	
	SIZE CODE NUMBER REV		SIZE CODE NUMBER
ORM NO 16-1022 08	A 52 TCOX 3	DEC FORM NO 16-1022 DRA 108	

